Find inspiration in NEW FunFusions™ combos!

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NEW FunFusions Heatwave in Havana includes Lucky™ Pot Of Gold Lantana, Blue Brilliance Scaevola and RioGrande™ Orange Purslane.

NEW PassionFruit Lantana
Spectacular tropical colors – true trailing habit for hanging baskets!

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You can depend on Ball FloraPlant® because our driving focus is on reliable supply, consistent quality and expertly timed products to make sure you have all you need for a successful growing season.

For 2024, our assortment has expanded with the addition of innovative products like NEW PassionFruit Lantana, with spectacular, heat-loving blooms and a true trailing habit that’s perfect for hanging baskets.

NEW FunFusions™ offer inspiration for creating even more combo solutions that will work well for your region and season.

We’ve added 4 varieties to our SureShot™ Petunia line with super-uniform flowering time and habits. These exciting colors, like our newest novelty, Raspberry Cheesecake, are ideal for patio pots and hanging baskets.

Our unrooted cutting geranium farm, YecaFlora, is up and running in Yecapixtla, Mexico, working to provide you with the same exceptional supply and consistent delivery that you have come to expect from us. The farm offers excellent conditions for high-quality geranium production along with climate-controlled truck shipments to the border.

Your business is important to us. We look forward to growing better together in 2024.

Growing Better Together

Mike Klopemeyer
President

Leland Toering
Sales Manager
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## ICONS

### REAL SERIES:
All varieties in a series have the same habit, vigor and flowering time for high-density production.

### SEASON EXTENDERS:
Proven heat extenders and late-season color to extend the Summer selling season.

### GENESIS:
Varieties are available as direct-stick callused cuttings for a shortened crop time.

### UNIFORM TIMING & HABIT
Indicates varieties within a series that share uniform timing and habit.

### EARLY FLOWERING TIME

<table>
<thead>
<tr>
<th>SUN EXPOSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Sun (6+ hours of direct sunlight)</td>
</tr>
<tr>
<td>Full Shade (6+ hours of shade)</td>
</tr>
<tr>
<td>Sun/Shade (less than 4 hours of sun)</td>
</tr>
</tbody>
</table>
NEW PassionFruit Lantana
Bright bloom clusters bring a kaleidoscope of color to hanging baskets.

NEW SureShot™ Pink Vein Petunia
Distinctive novelty pattern lights up mono or mixed sun containers.

NEW MixMasters™ Worth a Shot
A pleasing mix of NEW SureShot™ Pink Vein Petunia and SureShot™ White Petunia.
for 2024

NEW Cha-Cha™ Diva Lavender Calibrachoa

Vigorous series gets a unique light purple color-shifting variety.

NEW Volcanica™ Collection Solar Flare Coleus

Brings a new pattern, new leaf shape and striking colors to the high-vigor coleus collection.

NEW SlingShot™ Collection Burgundy Bliss Petunia

This group of novelty-patterned petunias puts the pizzazz in patio pots!

NEW MixMasters™ All That Glimmers

A perfectly balanced mix of Glimmer™ Appleblossom, Burgundy and Hot Pink Double Impatiens shines in pots and hanging baskets.
Trialed & Approved

Extensive trialing by region continues to be a key part of our introduction process at Ball FloraPlant® to ensure our products work in your area. Our knowledgeable breeding team performs these trials for new introductions, as well as continuous fine-tuning of our varieties after they have been introduced.

Setting the Standard

Before we consider launching a new variety, it has to meet our minimum trial standards. This “checklist” includes performance characteristics required for a passing grade in our greenhouse and outdoor trials in various regions. These trials are conducted at our own trial locations and with growers across the country.
Our Trial Sites

Ball FloraPlant’s trial sites are chosen by region to better evaluate the performance of our products before launch. Based on these trial results, we are confident that we’re providing you with the best-performing new varieties for your area.

TRIAL SITES

<table>
<thead>
<tr>
<th>Trial Site</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ball FloraPlant Breeding Station</td>
<td>Arroyo Grande, CA</td>
</tr>
<tr>
<td>Ball Seed Greenhouse</td>
<td>West Chicago, IL</td>
</tr>
<tr>
<td>Bell Nursery</td>
<td>Burtonsville, MD</td>
</tr>
<tr>
<td>Costa Farms</td>
<td>Miami, FL</td>
</tr>
<tr>
<td>George Sant &amp; Sons Greenhouses</td>
<td>Kleinburg, ON Canada</td>
</tr>
<tr>
<td>In-ground Evaluation Trial</td>
<td>Santa Paula, CA</td>
</tr>
<tr>
<td>In-ground Summer Trial</td>
<td>Elburn, IL</td>
</tr>
<tr>
<td>Mast Young Plants</td>
<td>Grand Rapids, MI</td>
</tr>
<tr>
<td>Masterpiece Flower Company</td>
<td>Byron Center, MI</td>
</tr>
<tr>
<td>Metrolina Greenhouses</td>
<td>Huntersville, NC</td>
</tr>
<tr>
<td>Olson's Greenhouse Gardens</td>
<td>Salem, UT</td>
</tr>
<tr>
<td>Overwintering Trial of EnduraScape</td>
<td>Trenton, SC</td>
</tr>
<tr>
<td>Plant Odyssey</td>
<td>Kyle, TX</td>
</tr>
<tr>
<td>Pure Beauty</td>
<td>Miami, FL</td>
</tr>
<tr>
<td>Rainbow Greenhouses</td>
<td>Chilliwack, BC Canada</td>
</tr>
<tr>
<td>Smith Gardens</td>
<td>Marysville, WA</td>
</tr>
<tr>
<td>Summer Container Trial</td>
<td>West Chicago, IL</td>
</tr>
<tr>
<td>Young's Plant Farm</td>
<td>Auburn, AL</td>
</tr>
</tbody>
</table>

TAKE A VIRTUAL GARDEN TOUR

Want to walk through the Gardens at Ball from anywhere in the world? Check out this virtual tour that lets you revisit the gardens from the Summer of 2022!

BALLSEED.COM/WEBTRACK
Unrooted Supply
All you need, direct to you.

Located in Estelí, Nicaragua, our farm Las Limas offers the optimal growing climate and altitude for our product selection, making it our most reliable source of unrooted cuttings.

• Impressive 99.9% order fill rate
• Previous winner of Innovator of the Year award by the Nicaraguan Export Producers Association, putting them at the top of Nicaraguan industry
• State-of-the-art facility designed to prevent insects, diseases and bacteria from entering the greenhouses
• New, leading-edge production software, MPRISE Agriware, improves the speed of communication to our growers and prepares us for future growth
• For sustainability, the farm grows in reusable, sterilized volcanic rock, and recycles and sterilizes water before reuse
• Highly skilled labor force makes sure every bag of cuttings is tracked, and approximately 15% of all bags are inspected for accuracy of count and quality
• The goal is to deliver them within 36 to 48 hours
• We have secured a delivery service out of Nicaragua to supply the North American marketplace and consistently serve our customers

**FLORICULTURA**
Floricultura is the source of Ball FloraPlant geraniums, and it is the sole provider of Genesis™ direct-stick callused cuttings. This facility, located in Guatemala, presents the ideal climate for producing strong geranium cuttings and the best callused program. Growers continue to choose Genesis based on the benefits of reduced labor and input costs, shortened crop time and less shrink.

**YECAFLORA GERANIUM FARM**
Our newest geranium farm near the town of Yecapixtla, Mexico, sits on 50 acres in a perfect climate to grow geraniums. The new location allows us to ship via truck to the U.S. border, ensuring that the cold chain is maintained. We are excited to bring you this new supply option in 2024!

**Certification**
• All of our farms are MPS-A certified for responsible use of crop protection agents, fertilizers, energy and waste.
• Las Limas is MPS-GAP certified to promote good agricultural practices.
Rooted Supply
All you need, direct to you.

We provide on-time delivery of the highest-quality rooted cuttings. Products are available through our reliable liner source with regional shipping. Benefits include:

• Accurate inventory
• Timely order confirmations and shipment tracking
• Priority service on shortages and substitutions
• 99% of our liner orders filled on time
• Over 90% of Ball Seed® liner orders shipped via our suppliers’ climate-controlled truck delivery system

ROOTED CUTTING SUPPLIERS

CALIFORNIA
Ball Tagawa Growers
Arroyo Grande (SG, MM)

COLORADO
Tagawa Greenhouse
Brighton (GE, SG, MM)

GEORGIA
Sunbelt Greenhouses, Inc.
Douglas (SG, MM)

MARYLAND
Greenstreet Growers
Lothian (SG, MM)

MICHIGAN
Mast Young Plants
Grand Rapids (GE, SG, MM)
Tuinier Brothers Greenhouses
Kalamazoo (GE, SG)

MINNESOTA
Wagner Greenhouses
Minneapolis (GE, SG, MM)

NEW HAMPSHIRE
D.S. Cole Growers
Loudon (SG, MM)

NEW JERSEY
Lucas Greenhouses
Monroeville (SG, MM)

NEW YORK
Dickman Farms
Auburn (GE, SG, MM)
Van de Wetering Greenhouses, Inc.
Jamesport (GE, SG, MM)
Amos Zittel & Sons
Eden (GE, SG)

OREGON
Al’s Garden Center & Greenhouse
Woodburn (GE)
Fessler Nursery
Woodburn (SG, MM)

WASHINGTON
(Also Western Canada)
Van Wingerden Greenhouses
Blaine (GE, SG, MM)

CANADA
BRITISH COLUMBIA
Westcan Greenhouses Ltd.
Langley Township (GE, SG)

ONTARIO
George Sant & Sons
Kleinburg (GE, SG, MM)

QUÉBEC
Willy Haeck et Fils, Inc.
Sain-Rémi (GE)

GE = Geraniums
SG = Specialty Garden Plants
MM = MixMasters Multiliners

BALLSEED.COM/WEBTRACK
MixMasters™
Combining perfectly mastered colors and greater genetic diversity
MixMasters are rigorously tested combinations sold as an unrooted cutting kit and meant to be rooted together as multi-stick liners* in the same week. These recipes are perfectly balanced from start to finish. Each is trialed for national performance, even flower timing and similar vigor.
*Single stick, multi-species liners. US7,891,134; US8,136,294; US8,220,201

**SUN COMBOS** (Multi-Species – Multiliners)

<table>
<thead>
<tr>
<th>Variety</th>
<th>Image</th>
<th>Variety</th>
<th>Image</th>
<th>Variety</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Grape Fit!</td>
<td><img src="image1" alt="Image" /></td>
<td>Bejeweled</td>
<td><img src="image2" alt="Image" /></td>
<td>NEW Berry Basket Improved</td>
<td><img src="image3" alt="Image" /></td>
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<tr>
<td>Bloomin' Glory</td>
<td><img src="image4" alt="Image" /></td>
<td>Color Magic</td>
<td><img src="image5" alt="Image" /></td>
<td>Eye Caramba</td>
<td><img src="image6" alt="Image" /></td>
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<tr>
<td>Great Escape</td>
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<td>Heartland</td>
<td><img src="image8" alt="Image" /></td>
<td>I Heart Pink</td>
<td><img src="image9" alt="Image" /></td>
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<tr>
<td>Mambo</td>
<td><img src="image10" alt="Image" /></td>
<td>NEW Over the Top Improved</td>
<td><img src="image11" alt="Image" /></td>
<td>Paradise Sunrise</td>
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<td>Rosé Everyday</td>
<td><img src="image13" alt="Image" /></td>
<td>Santa Fe Sunset</td>
<td><img src="image14" alt="Image" /></td>
<td>Shoot the Breeze</td>
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<tr>
<td>Fire Dancer</td>
<td><img src="image16" alt="Image" /></td>
<td>Conga Line</td>
<td><img src="image17" alt="Image" /></td>
<td>Home Sweet Home</td>
<td><img src="image18" alt="Image" /></td>
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<tr>
<td>Rainbow Bright</td>
<td><img src="image19" alt="Image" /></td>
<td>Sunshine State</td>
<td><img src="image20" alt="Image" /></td>
<td>5 Alarm Chili</td>
<td><img src="image21" alt="Image" /></td>
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<tr>
<td>Amped Up</td>
<td><img src="image22" alt="Image" /></td>
<td>Fire &amp; Spice</td>
<td><img src="image23" alt="Image" /></td>
<td>The Whole Enchilada</td>
<td><img src="image24" alt="Image" /></td>
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</table>

**COMPACT SUN COMBOS**

<table>
<thead>
<tr>
<th>Variety</th>
<th>Image</th>
<th>Variety</th>
<th>Image</th>
<th>Variety</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-Species – Multiliners</td>
<td><img src="image25" alt="Image" /></td>
<td>Mono-Species – Multiliners</td>
<td><img src="image26" alt="Image" /></td>
<td>Fire Dancer</td>
<td><img src="image27" alt="Image" /></td>
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<tr>
<td>Conga Line</td>
<td><img src="image28" alt="Image" /></td>
<td>Home Sweet Home</td>
<td><img src="image29" alt="Image" /></td>
<td>Rainbow Bright</td>
<td><img src="image30" alt="Image" /></td>
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<tr>
<td>Sunshine State</td>
<td><img src="image31" alt="Image" /></td>
<td>5 Alarm Chili</td>
<td><img src="image32" alt="Image" /></td>
<td>Amped Up</td>
<td><img src="image33" alt="Image" /></td>
</tr>
<tr>
<td>Fire &amp; Spice</td>
<td><img src="image34" alt="Image" /></td>
<td>The Whole Enchilada</td>
<td><img src="image35" alt="Image" /></td>
<td>Glimmerazzi</td>
<td><img src="image36" alt="Image" /></td>
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</table>

**SUN & SHADE COMBOS**

<table>
<thead>
<tr>
<th>Variety</th>
<th>Image</th>
<th>Variety</th>
<th>Image</th>
<th>Variety</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 Alarm Chili</td>
<td><img src="image37" alt="Image" /></td>
<td>Amped Up</td>
<td><img src="image38" alt="Image" /></td>
<td>Fire &amp; Spice</td>
<td><img src="image39" alt="Image" /></td>
</tr>
<tr>
<td>Glimmerazzi</td>
<td><img src="image40" alt="Image" /></td>
<td>The Whole Enchilada</td>
<td><img src="image41" alt="Image" /></td>
<td>5 Alarm Chili</td>
<td><img src="image42" alt="Image" /></td>
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</table>

**SHADE COMBOS**

<table>
<thead>
<tr>
<th>Variety</th>
<th>Image</th>
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</tr>
</thead>
<tbody>
<tr>
<td>NEW All that Glimmers</td>
<td><img src="image43" alt="Image" /></td>
<td>Glimmerazzi</td>
<td><img src="image44" alt="Image" /></td>
</tr>
</tbody>
</table>

Trialed. Tested. Approved.
“Trialed. Tested. Approved.” This is our promise.

Guidelines for our MixMasters selections include:

- **Regionality**
  Focus is placed on product solutions for the North, South and anywhere in between.

- **Seasonality**
  Many options are provided for early and late-season sales, placing importance on early-to-flower varieties as well as heat performance.

- **Timing**
  Varieties must flower together in the beginning and go out of flower together at the end of the season.

- **Vigor**
  All components in the mix must be comparable in vigor, so one component doesn’t outgrow another.

- **Longevity**
  It must provide continuous blooming well after the customer brings it home from retail.

### SUN COMBOS (Mono-Species – Multiliners)

- **NEW Bee’s Glee**
- **NEW Before You Know It**
- **Cherry Plum Tart**
- **Diva La Vida**
- **NEW Fruit Cocktail Improved**
- **Laguna Beach**
- **Oh Beehave!**
- **NEW On For Sure**
- **Panorama**
- **Powers That Bee**
- **Rush Hour**
- **NEW Serendipty**
- **Spirits United**
- **Spring Showers**
- **Sprinkles On Top**
- **Sundance**
- **Sweet Melody**
- **Tart Deco**
- **Tea Party**
- **NEW Touch Of Sugar**
- **Tropicali**
- **NEW Worth a Shot**

### HEAT-LOVING COMBOS

- **Berrytones**
- **Bloom Of Allegiance**
- **NEW Good Company**
- **Gold Plated**
- **Hot Spell**
- **NEW Just My Luck**
- **Lucky Charm**
- **Patriotic Heart**
- **NEW Porch Patriot Improved**
- **Retro Summer**

**Becky’s Tips**

Look for expert growing tips for these combinations from Becky Lacy, our MixMasters Product Manager.
SUN COMBOS
Multi-Species – Multiliners

A Grape Fit! 🍇
Cabaret® Neon Rose Calibrachoa
CannonBall™ Rose Vein Petunia
Firehouse™ Purple Verbena

Bejeweled 🌸
Cabaret® Yellow Calibrachoa
CannonBall™ Burgundy Petunia
Firehouse™ Purple Verbena

NEW Berry Basket Improved 🍇
Cabaret® White Calibrachoa
CannonBall™ Burgundy Petunia
NEW Burgundy Wink Improved Verbena

Biden My Time 🌷
Bee Happy™ Red Bidens
Cabaret® Yellow Calibrachoa
Firehouse™ Red Verbena

Take care when applying PGRs. Bidens Bee Happy has more sensitivity to PGRs than the other components.
**SUN COMBOS**

*Multi-Species – Multiliners*

**Big Flirt**:  
ColorRush™ Blue Petunia  
EnduraScape™ Pink Bicolor Verbena  
SuperCal® Pink Petchoa

**Bloomin' Glory**:  
Cabaret® Midnight Blue Calibrachoa  
CannonBall™ Red Petunia  
Firehouse™ White Verbena

**Color Magic**:  
Cabaret® Yellow Calibrachoa  
Early Springs™ Dark Blue Lobelia  
Firehouse™ Red Verbena

**Eye Caramba**:  
Cabaret® White Calibrachoa  
Bluerific Petunia  
Violet Wink Verbena

*BALLSEED.COM/WEBTRACK*
MixMasters • SUN • MULTI

SUN COMBOS
Multi-Species – Multiliners

**Fashionista**
Early Springs™ Dark Blue Lobelia
CannonBall™ Burgundy Petunia
MixMaster Hot Pink Verbena

**Gimme Some Sugar**
Bee’s Knees Petunia
Early Springs™ Dark Blue Lobelia
MixMaster Hot Pink Verbena

**Great Escape**
Cha-Cha™ Diva Hot Pink Calibrachoa
Bee’s Knees Petunia
Firehouse™ Burgundy Verbena

Follow PGR Best Practices for desired Diva coloring.

**Heartland**
CannonBall™ White Petunia
Firehouse™ Red Verbena
Early Springs™ Blue Lobelia

Great Escape

Heartland
SUN COMBOS
Multi-Species – Multiliners

I Heart Pink
Cabaret® Light Pink Calibrachoa
CannonBall™ Pink Petunia
MixMaster Hot Pink Verbena

Jazzberry Jam
Cabaret® White Calibrachoa
CannonBall™ Burgundy Petunia
Firehouse™ Purple Verbena

Kiss Me Good Night
Sun Drop Bidens
Cabaret® Good Night Kiss Calibrachoa
Firehouse™ Purple Verbena

Mambo
Cabaret® Orange Calibrachoa
CannonBall™ Pink Petunia
Sun Drop Bidens
SUN COMBOS
Multi-Species – Multiliners

NEW Over the Top Improved
Cabaret® Yellow Calibrachoa
CannonBall™ Blue Petunia
NEW Burgundy Wink Improved Verbena

Paradise Sunrise
Cha-Cha™ Yellow Calibrachoa
Firehouse™ White Verbena
Pinkceptional Petunia

Peach of My Heart
Cabaret® Deep Yellow Calibrachoa
SunPatiens® Compact Orange Impatiens
EnduraScape™ Blue Verbena

This mix contains Impatiens, which performs best when left unpinched. See PGR culture for Impatiens to get best results.

NEW Piece of Cake
Cabaret® Strawberry Parfait Calibrachoa
Vogue™ Pink Double Petunia
Firehouse™ White Verbena
**SUN COMBOS**

Multi-Species – Multiliners

**Rosé Everyday**
- Cabaret® Pink Calibrachoa
- CannonBall™ Pink Petunia
- MegaCopa™ White Bacopa

**Santa Fe Sunset**
- Sun Drop Bidens
- Cabaret® Orange Calibrachoa
- Firehouse™ Purple Verbena

**Shoot the Breeze**
- Cabaret® Light Pink Calibrachoa
- Cabaret® Midnight Blue Calibrachoa
- Easy Breezy™ White Lobularia

**Sunnyside**
- Bee’s Knees Petunia
- Cabaret® Yellow Calibrachoa
- Firehouse™ White Verbena
SUN COMBOS
Mono-Species – Multiliners

NEW Bee’s Glee
Bee’s Knees Petunia
NEW SureShot™
Raspberry Cheesecake Petunia

NEW Before You Know It
CannonBall™ Coral Petunia
CannonBall™ Pink Petunia
CannonBall™ Yellow Petunia

Cherry Plum Tart
Cabaret® Bright Red Calibrachoa
Cabaret® Deep Blue Calibrachoa
Cabaret® Hot Pink Calibrachoa

Diva La Vida
Cha-Cha™ Deep Blue Calibrachoa
Cha-Cha™ Diva Hot Pink Calibrachoa

Follow PGR Best Practices for desired Diva coloring.
SUN COMBOS
Mono-Species – Multiliners

NEW Fruit Cocktail
Improved
Cabaret® Neon Rose Calibrachoa
Cabaret® Orange Calibrachoa
Cabaret® Yellow Calibrachoa

Laguna Beach
Cabaret® Lavender Calibrachoa
Cabaret® Orange Calibrachoa
Cabaret® Red Calibrachoa

Oh Beehave!
Bee’s Knees Petunia
Jewel Collection Midnight Gold Petunia

NEW Oh For Sure
SureShot™ Dark Blue Petunia
NEW SureShot™ Hot Pink Petunia
SureShot™ White Petunia
MixMasters • SUN • MONO

SUN COMBOS
Mono-Species – Multiliners

Panorama
Cabaret® Hot Rose Calibrachoa
Cabaret® Purple Calibrachoa
Cabaret® White Calibrachoa

Powers That Bee
Bumble Bee™ Blue Calibrachoa
Bumble Bee™ Hot Pink Calibrachoa

Rush Hour
ColorRush™ Pink Petunia
ColorRush™ Pink Vein Petunia

NEW Serendipity
Cabaret® Bright White Calibrachoa
Cabaret® Neon Rose Calibrachoa
Cabaret® Strawberry Parfait Calibrachoa

Panorama
Powers That Bee
Rush Hour
NEW Serendipity
SUN COMBOS
Mono-Species – Multiliners

**Spirits United**
- Cabaret® Bright Red Calibrachoa
- Cabaret® Deep Blue Calibrachoa
- Cabaret® White Calibrachoa

**Spring Showers**
- Cabaret® Lavender Calibrachoa
- Cabaret® Lemon Yellow Calibrachoa
- Cabaret® Light Pink Calibrachoa

**Sprinkles On Top**
- Cabaret® Bright Red Calibrachoa
- Cabaret® Deep Blue Calibrachoa
- Cabaret® Deep Yellow Calibrachoa

**Sundance**
- Cabaret® Hot Rose Calibrachoa
- Cabaret® Midnight Blue Calibrachoa
- Cabaret® Yellow Calibrachoa

**Sweet Melody**
- Cabaret® Light Pink Calibrachoa
- Cabaret® Midnight Blue Calibrachoa
- Cabaret® Neon Rose
SUN COMBOS
Mono-Species – Multiliners

**Tart Deco**
- ColorRush™ Blue Petunia
- ColorRush™ Pink Petunia

**Tea Party**
- Cabaret® Lemon Yellow Calibrachoa
- Cabaret® Pink Star Calibrachoa

**Touch Of Sugar**
- ColorRush™ Pink Petunia
- ColorRush™ White Petunia

**Tropicali**
- Cabaret® Bright Red Calibrachoa
- Cabaret® Deep Yellow Calibrachoa
- Cabaret® Orange Calibrachoa

**NEW Worth a Shot**
- NEW SureShot™ Pink Vein Petunia
- SureShot™ White Petunia
COMPACT SUN COMBOS
Multi-Species – Multiliners

**Fire Dancer**
Conga™ Cherry Calibrachoa
Conga™ Yellow Calibrachoa
MicroBlaze™ Spitfire Coleus

Compact components! For best results and shortest crop time, limit PGRs and do not pinch.

Mono-Species – Multiliners

**Conga Line**
Conga™ Red Calibrachoa
Conga™ Yellow Calibrachoa
Conga™ Dark Blue Calibrachoa

**Home Sweet Home**
Conga™ Red Calibrachoa
Conga™ White Calibrachoa
Conga™ Dark Blue Calibrachoa

**Rainbow Bright**
Conga™ Dark Blue Calibrachoa
Conga™ Rose Calibrachoa
Conga™ Yellow Calibrachoa

**Sunshine State**
Conga™ Diva Orange Calibrachoa
Conga™ Yellow Calibrachoa
HEAT-LOVING COMBOS

**Berrytones**
- Archangel™ Cherry Red Angelonia
- Archangel™ Raspberry Angelonia
- AngelMist® Spreading Dark Purple Angelonia

Contains both upright and spreading Angelonia. It is not necessary to position the upright Archangel Angelonia in the center of the pot, as the components will find balance.

**Bloom Of Allegiance**
- AngelMist® Spreading White Angelonia
- Lucky™ Red Lantana
- Blue Brilliance Scaevola

**NEW Good Company**
- Shamrock™ Butterscotch Glow Lantana
- Shamrock™ Red Lantana

*NEW* Good Company
HEAT-LOVING COMBOS

Gold Plated
Archangel™ Blue Bicolor Angelonia
Lucky™ Pot Of Gold Lantana
White Sparkle Scaevola

Angelonia Archangel is an upright thriller component. For best results, rotate the Angelonia component to the center of the pot.

Hot Spell
Archangel™ Dark Rose Angelonia
Honeybells Cuphea
Landmark™ Gold Lantana

It is not necessary to position Archangel upright Angelonia in the center of the pot, as the components will find balance. For southern growers, consider substituting Lantana component for Lucky Pot Of Gold.

NEW Just My Luck
Shamrock™ Butterscotch Glow Lantana
NEW Shamrock™ Orange Flame Improved Lantana
Shamrock™ Peach Lantana

Lucky Charm
Lucky™ Flame Lantana
Lucky™ Pot Of Gold Lantana
Lucky™ Sunrise Rose Lantana
HEAT-LOVING COMBOS

Patriotic Heart
AngelMist® Spreading Dark Purple Angelonia
AngelMist® Spreading White Angelonia
Archangel™ Cherry Red Angelonia
Contains both upright and spreading Angelonia. It is not necessary to position the upright Archangel Angelonia in the center of the pot, as the components will find balance.

NEW Porch Patriot Improved
Archangel™ Raspberry Angelonia
NEW Lucky™ Yellow Lantana Improved
Blue Brilliance Scaevola

Retro Summer
RioGrande™ Orange Purslane
RioGrande™ Scarlet Purslane
RioGrande™ Yellow Purslane
Contains trailing components. Ensure enough pot spacing is given to allow enough room for the plants to grow down.

Shindig
Archangel™ Dark Purple Angelonia
Blue Brilliance Scaevola
Lucky™ Red Lantana

NEW Porch Patriot Improved
SUN & SHADE COMBOS

5 Alarm Chili
- FlameThrower™ Chili Pepper Coleus
- FlameThrower™ Habanero Coleus
- FlameThrower™ Spiced Curry Coleus

Amped Up
- Trusty Rusty Coleus
- Vino Coleus
- Wasabi Coleus

Fire & Spice
- FlameThrower™ Cajun Spice Coleus
- FlameThrower™ Habanero Coleus
- FlameThrower™ Salsa Verde Coleus

The Whole Enchilada
- FlameThrower™ Habanero Coleus
- FlameThrower™ Salsa Verde Coleus

SHADE COMBOS

NEW All that Glimmers
- Glimmer™ Appleblossom Double Impatiens
- Glimmer™ Burgundy Double Impatiens
- Glimmer™ Hot Pink Double Impatiens

Glimmerazzi
- Glimmer™ Bright Red Double Impatiens
- Glimmer™ White Double Impatiens
Now you’ve got another chance to get creative with our exciting new line of FunFusions™ Combos!

They’re a delightful opportunity to create solutions for a wider variety of crops, seasons, weather conditions and space constraints.
New FunFusions™

FunFusions are carefully selected and trialed to grow well together and perform well for the consumer. Simply order the components separately as liners or cuttings, and then plant them following our detailed “plantograms” on the FunFusions web page.

Scan the code below to explore a broad selection of combination ideas based on exposure, seasonality, timing and color. Then, create your own masterpiece mixes!

Radiant in Rio Grande
AngelMist® Spreading Dark Purple Angelonia
Lucky™ Sunrise Rose Lantana
RíoGrande™ Yellow Purslane

Heatwave in Havana
Lucky™ Pot Of Gold Lantana
Blue Brilliance Scaevola
RíoGrande™ Yellow Purslane

Sizzling in Sydney
Archangel™ White Angelonia
Blue Brilliance Scaevola
Cherrybells Cuphea
**ANGELONIA**  
*Angelonia angustifolia*

**AngelDance™**

**Height:** 14 to 18 in. (36 to 46 cm)  
**Spread:** 12 to 14 in. (30 to 36 cm)

Thrives in extreme heat, humidity and drought.  
Uniform habit and flowering time for easy, high-density production.  
Well-branched plants ship with less breakage, tangling and shrinkage.  
Excellent landscape performance.  
Taller and more vigorous than Archangel, with more flexible stems that “dance” in the wind.

**Kirsten Buche**  
*Breeder*

“AngelDance Series was selected for its gorgeous bicolor flowers, slightly increased upright vigor and uniform timing, which combine for an eye-catching display. It works well in containers and mixes, as well as in the landscape. The series has tall, wispy, colorful branches that provide additional height and bring a flowy, cottage feel to any garden. Our angelonia series are bred to enhance the desired habit with large blooms and sturdy stems, and they are trialed in containers and in-ground to ensure the best all-around performance. The AngelDance Series is a heat-loving season extender, like Archangel and AngelMist, and it makes a fantastic addition to the beautiful flower assortment available from Ball FloraPlant.”

**Watch the Angels Dance!**
AngelMist™ Spreading
Super-spreading display in baskets and landscapes

**ANGELONIA**
*Angelonia angustifolia*

**AngelMist® Spreading**
**Height:** 4 to 10 in. (10 to 25 cm)
**Spread:** 12 to 20 in. (30 to 51 cm)

Big blooms have big impact in baskets or in the ground!

Extreme heat, humidity and drought are no match for these super-spreading varieties.

Low-growing variety makes a unique groundcover.

- **White**
- **Bluebird**
- **Berry Sparkler**
- **Pink**
- **Dark Purple**

AngelMist Spreading makes an excellent heat-tolerant combo component. Try mixing it with Lucky™ Lantana.

BALLSEED.COM/WEBTRACK
Archangel™
Heat-loving flowers with the biggest blooms

MixMasters Berrytones
(Cherry Red, Raspberry and AngelMist Spreading Dark Purple Angelonia)

NEW FunFusions Sweet in Singapore
(Purple mixed with Shamrock Orange Flame Lantana, Sugarbells Cuphea)

NEW Ruby Sangria

White
**ANGELONIA**

*Angelonia angustifolia*

**Archangel™**

**Height:** 12 to 14 in. (30 to 36 cm)

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

Thrives in extreme heat, humidity and drought.

Uniform habit and flowering time for easy, high-density production.

Well-branched plants ship with less breakage, tangling and shrinkage.

Works well in quarts, gallons and mixed containers.

**NEW Ruby Sangria:** The only dark red available on the market!
ANGELONIA

Angelissa White Angelonia

Angelissa Rose Angelonia

Angelissa™
Angelonia angustifolia

‘Red Threads’ Alternanthera

Angelissa™ White Angelonia

Angelissa Rose Angelonia

ANGELONIA

Angelissa™
Angelonia angustifolia

‘Red Threads’ Alternanthera

Angelissa™ White Angelonia

Angelissa Rose Angelonia

Alternanthera ficoidea

‘Red Threads’

Height: 12 to 16 in. (30 to 41 cm)
Spread: 10 to 12 in. (25 to 30 cm)

Makes an ideal component plant for SunPatiens® and SuperCal® combinations. Beautiful blooms offer worry-free performance in any application. Large flower spikes on sturdy stems are perfect for mixed combos.

ALTERANTHERA

Brachyscome hybrida

‘Red Threads’

Height: 12 to 16 in. (30 to 41 cm)
Spread: 10 to 12 in. (25 to 30 cm)

Unique, easy-to-grow foliage plant adds distinctive color and texture to sun and shade combos. Densely branched, with compact, tightly mounded habit – requires only one pinch in finishing. Thrives in heat, holds up at retail in shady conditions.

BRACHYSCOME

Radiant Magenta Brachyscome

Radiant Magenta

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

The brightest magenta brachyscome on the market, with superior iron uptake for healthier plants and dark green foliage. Makes a great gift item. Compact variety is excellent for pot-tight production, with no PGRs or pinching required. Best for 4-in. (10-cm) pots and quarts.

Fresco™ Purple

Height: 4 to 6 in. (10 to 15 cm)
Spread: 8 to 12 in. (20 to 30 cm)

Fresco Purple has finely textured foliage and small blue flowers that last all season long. Compact and upright-mounded plants prefer cooler temperatures. High light will produce the best habit for bright, large blooms.

FRESCO is a U.S. trademark of Danziger Flower Farm.
Versa™
More upright, less tangling, better sell-through

BACOPA Sutera cordata
Versa™
Height: 4 to 6 in. (10 to 15 cm)
Spread: 12 to 18 in. (30 to 46 cm)
The Versa Series is a semi-upright suteran that does not tangle when grown pot tight in a quart.
This high-quality, non-tangling series will provide better sell-through at retail.
Ideal for quart or 4-in. (10-cm) pots.
Hides older flowers better than other varieties and has more flower cover in a smaller container.
MegaCopa™
Blockbuster blooms power through the heat

MegaCopa has big blooms and a trailing habit that keeps up with other components for great combos.

MixMasters Rosé Everyday
(White, Cabaret Pink Calibrachoa, CannonBall Pink Petunia)
NEW Lavender: Better branching and flower power than the competition in a popular light purple color.

NEW Pink Improved: Better branching and hides the spent flowers better with a new flush of blooms.

NEW Plum: An exciting purple color addition for the series.

Left to right: Texas Trials – leading heat-performance variety versus MegaCopa White.
BIDENS
Bidens ferulifolia

NEW Bee Alive Double Orange
Height: 8 to 10 in. (20 to 25 cm)
Spread: 18 to 24 in. (46 to 61 cm)
The first double orange bidens on the market! Warm, vibrant colors and tones on double flowers make this a great addition to any Fall program.

NEW Bee Alive Improved
Height: 8 to 10 in. (20 to 25 cm)
Spread: 18 to 24 in. (46 to 61 cm)
Controlled habit is ideal for small pots up to hanging baskets. Easy production for retail. Flowers attract pollinators, like bees and butterflies. Improved for a more saturated red color and more longer-lasting blooms.

Bee Alive
Livens up small pots and baskets
Bee Happy™ & Bee Bold

Fills larger pots with gorgeous color

**Bee Happy™**

*Bidens ferulifolia*

*Height:* 10 to 14 in. (25 to 36 cm)
*Spread:* 18 to 24 in. (46 to 61 cm)

The Bee Happy Series is about 35% more vigorous than ‘Bee Alive’, and about 50% less vigorous than ‘Bee Bold’. It features a semi-upright habit, and the plants can be grown closer together with less spacing. It is easier to control with less PGRs.

**‘Bee Bold’**

*Height:* 14 to 20 in. (36 to 51 cm)
*Spread:* 18 to 24 in. (46 to 61 cm)

‘Bee Bold’ is 50 to 70% more vigorous than ‘Bee Happy’. It features an upright habit and is easier to control with less pinching. Best for larger pot impulse buys.
Sun Drop & Sunbeam

Gorgeous color fills large and small pots

**Sun Drop Compact Double Yellow**

*Height:* 8 to 10 in. (20 to 25 cm)  
*Spread:* 12 in. (30 cm)

Smaller version of Sun Drop Double Yellow.  
Perfect for small pot production and plays nice in mixed containers.  
Also, best for the southern region.  
Produces double flowers with a better habit and a more saturated yellow than other compact double bidens on the market.  
Culture and timing are the same as Sun Drop Compact.

**Sun Drop Compact**

*Height:* 8 to 10 in. (20 to 25 cm)  
*Spread:* 12 in. (30 cm)

Smaller version of Sun Drop.  
Perfect for small pot production and plays nice in mixed containers. Also, best for the southern region.

**Sun Drop Double Yellow**

*Height:* 10 to 12 in. (25 to 30 cm)  
*Spread:* 16 to 18 in. (41 to 46 cm)

Sun Drop Double Yellow features very large, double flowers on a mounding habit.  
Large, eye-catching blooms work well in mixed baskets and patio containers.  
This yellow bidens forms a tidy mound in the garden.  
Flowers from Spring to Fall.  
These large, double blooms are substantially larger in size than the competition.
**Sun Drop**

**Height:** 12 to 18 in. (30 to 46 cm)
**Spread:** 12 in. (30 cm)

Top-selling bidens has large flowers into the Summer months. Features a deep yellow color. Works well in mixed baskets and patio containers. Habit is mounded, giving it great appeal when alone in a container.

**Sunbeam**

**Height:** 10 to 14 in. (25 to 36 cm)
**Spread:** 18 to 28 in. (46 to 71 cm)

High vigor, early-season color and cool growing options make Sunbeam a must-have for large basket and combination programs.
Dreamtime®
Impressive displays make for early-season sales
**BRACTEANTHA**

*Bracteantha bracteatum*

**Dreamtime®**

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

More controlled and mounded plants hold their shape from greenhouse to garden.

Makes a high-impact retail display.

Excellent tolerance for cool temperatures.

Ideal for high-density programs in 4 and 4.5-in. (10 and 11-cm) pots.

Also available as Genesis direct-stick callused cuttings.

DREAMTIME is a U.S. registered trademark of Bonza Botanicals, Pty., Ltd.
Bumble Bee™ Collection
Stand-out color all abuzz in baskets and combos
**Bumble Bee™ Collection**

One-of-a-kind colors and strong vigor for full-bodied mixed containers. Flowers stay open even under the lowest light conditions. Strong adaptability: specially selected to stand up to harsh conditions.

**Bumble Bee™ Blue**

*Height:* 10 to 15 in. (25 to 38 cm)  
*Spread:* 10 to 15 in. (25 to 38 cm)  

Bicolor blue with defined star yellow throat has a tidy and tamed habit that matches Bumble Bee Pink.

**Bumble Bee™ Hot Pink**

*Height:* 6 to 12 in. (15 to 30 cm)  
*Spread:* 12 to 24 in. (30 to 61 cm)  

As the largest flower in the collection, this variety stands out with a vibrant yellow throat and dramatic hot pink hue. Its unique pattern and color make it perfect for eye-catching baskets and combos in the garden. Works well in 2.5 quart/gallon and larger pots.

**Bumble Bee™ Orange**

*Height:* 6 to 12 in. (15 to 30 cm)  
*Spread:* 12 to 24 in. (30 to 61 cm)  

This is the first orange star in the market, featuring a bright, vibrant bicolor orange with a unique pattern.

**Bumble Bee™ Pink**

*Height:* 10 to 15 in. (25 to 38 cm)  
*Spread:* 10 to 15 in. (25 to 38 cm)  

Star, eye, picotee and tri-color – this calibrachoa has it all! Bumble Bee Pink is the first eye-type calibrachoa with a star pattern! Wider star adds wow to the throat of the bloom. Perfect for large baskets and combos.
Calibrachoa

Conga™
Easy growing for compact color bowls

MixMasters Home Sweet Home
(Red, White, Dark Blue)
**CALIBRACHOA**

*Calibrachoa hybrid*

**Conga™**

**Height:** 6 to 10 in. (15 to 25 cm)

**Spread:** 8 to 10 in. (20 to 25 cm)

Naturally compact habit is perfect for pot-tight production and no PGRs needed.

Great choice for quarts, color bowls and window boxes.

Easy to grow – very uniform.

Excellent pH tolerance and profuse flowering give Conga superior hold at retail.

Flowers one week earlier than Cabaret® Series.

**Early Flowering Time**

- **White**
- **Yellow**
- **Diva Orange**
- **Orange Kiss**
- **Pink Kiss**
- **Pink Star**
- **Rose**
- **Cherry**
- **Red**
- **Lavender**
- **Purple Star**
- **Dark Blue**

**MixMasters Rainbow Bright**

(Dark Blue, Rose & Yellow)
**CALIBRACHOA**

**Cabaret®**

Outstanding color with early flowering

**CALIBRACHOA®**

Calibrachoa hybrid

**Cabaret®**

**Height:** 6 to 10 in. (15 to 25 cm)

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

Cabaret carries the best-performing lineup of solid colors and exciting bicolors with early flowering!

Most varieties flower with a 10.5-hour day length, and stay open and in flower under low light conditions – a big plus at retail.

All new genetics flower early when produced for target production weeks prior to Week 5 in the South and Week 14 in the North.

Works well in 4.5 to 6-in. (11 to 15-cm) pots up to large baskets.

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**Good Night Kiss**

**MixMasters Sweet Melody**

(Light Pink, Neon Rose, Midnight Blue)

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Keep Cabaret at the core of your combos and you shall never be contrite. This is the superior choice in calibrachoa series.
Early Flowering Time

Diva Pink
Bright Red
Midnight Kiss

Bright White
White
Lemon Yellow
Yellow

Deep Yellow
Diva Orange
Orange
Strawberry Parfait

Light Pink
Light Pink Kiss
Pink
Pink Star

Diva Pink
Hot Pink
Hot Rose
Neon Rose

Bright Red
Red
Lavender
Purple

Midnight Kiss
Sky Blue
Deep Blue
Midnight Blue
Best Practices

Northern Region
In cooler climates and high light, no PGR is recommended.

Southern Region
In warmer regions, use a Bonzi drench at 3 ppm 6 weeks after transplant.

Cha-Cha varieties have uniform timing and vigor with large flowers and bright, unique colors. These plants are sure to stand out at retail.

Not messy or wild, Cha-Cha features the uniform, controlled vigor you’re looking for in big basket displays. These calibrachoas have a good, mounded habit that mixes well with others. Just check out MixMasters Diva La Vida with its spectacular blend of colors, including a novelty from the series!
CALIBRACHOA

**Diva Hot Pink**
2020 University of Georgia Plants of Distinction Award Winner

**CALIBRACHOA**
*Calibrachoa hybrida*

**Cha-Cha™**
- **Height:** 6 to 12 in. (15 to 30 cm)
- **Spread:** 12 to 24 in. (30 to 61 cm)

Cha-Cha series is 25% more vigorous than Cabaret series with large, cascading blooms.

Easy-to-produce series is uniform in size with an early flowering time.

Perfect for large containers, hanging baskets and mixes, and features three color-shifting types!

**NEW Diva Lavender:** A new purple color-shifting addition to the series.
Floriosa

High shine color for containers

**Floriosa**

**Height:** 10 to 14 in. (25 to 36 cm)

**Spread:** 10 to 16 in. (25 to 41 cm)

Provides a high-quality, uniform product. Flowers from April as a cheerful Spring bloomer to October as a rewarding Fall décor program in pots on balconies or in gardens. If finishing before the end of May, Floriosa will require black cloth – an exciting extension for this plant. This provides a great opportunity to use Floriosa for container programs paired well with other colors or with the Twisted or Intenz™ Celosia programs!
Twisted

Touchable texture for potted plants and gardens

**Twisted**

*Height:* 16 to 20 in. (41 to 51 cm)

*Spread:* 12 to 14 in. (30 to 36 cm)

Unique, bold color and all-season garden performance. After years of trialing to ensure ease of production, Twisted truly offers a fine complement to Intenz™ Celosia for both pot plant and garden programs. Its bold cristata blooms attract attention because of their unique, touchable form and texture. Excellent for Fall programs.

- **Dark Orange**
- **Yellow**
- **Strawberry**
- **Purple**
Perfect performance indoors or in the garden

**CELOSIA**

**Intenz™**

**CELOSIA**

*Celosia spicata*

Powered by Ball FloraPlant®

**Intenz™**

**Height:** 18 in. (46 cm)

**Spread:** 12 in. (30 cm)

An easy-to-produce plant with bold flower spikes that look great at retail. Continues to bloom throughout the Summer and Fall...making it the perfect plant for an indoor program or in the garden.

*Bred by FLORITEC.*
NEW Lavender Dreams

Height: 20 to 32 in. (51 to 81 cm)
Spread: 12 to 18 in. (30 to 46 cm)

Compact cleome is 30% smaller than the leading vegetative variety, so it won’t take over in the garden.

It has soft thorns instead of the sharp, wood thorns usually found on cleome, making it easier to handle and ship.

The heat and drought-tolerant cleome lasts until first frost.

An excellent addition to any pollinator program; butterflies, bees and hummingbirds love it!
COLEUS

Coleus
Colossal color and eye-popping patterns

Redhead and Wasabi

COLEUS
Solenostemon scutellarioides

The stunning colors and patterns thrive in full sun and shade. Versatile, premium varieties are very late to never-flowering. Low-maintenance, high-impact plants are perfect for large pot programs and landscaping.

Coleus Positioning

**MicroBlaze™ Collection**
- Matchsticks
- Spitfire

**Ignite™ Collection**
- Copperhead
- Heartbreaker
- Ruby Slipper
- Special Effects

**ChargedUp™ Collection**
- Campfire
- Coleosaurus
- Dragon Heart
- Electric Lime
- Henna
- Indian Summer
- Inferno
- Vulcan

**FlameThrower™ Series**

**TrailBlazer™ Collection**

**Volcanica™ Collection**
- NEW French Quarter Improved
- NEW Solar Flare
- Limewire
- Redhead
- Trusty Rusty
- Vino
- Wasabi

Redhead and Wasabi
MicroBlaze™ Collection

Fiery foliage perfect for small pots and decorative containers

**Matchsticks**

Low-maintenance, high-impact plants are perfect for small pots and decorative container mixes.

**Matchsticks:** Offers a unique foliage pattern, featuring a vibrant burgundy center with green edges and just a touch of pink.

**Spitfire:** Holds its color very well in full sun or shade, and is very late to flower. Plant is self-branching, so no pinch or PGRs are needed. Versatile for use in combos, containers and landscape borders, and great for urban gardeners’ balconies or small patios.

**MicroBlaze™ Collection**

- **Height:** 12 to 18 in. (30 to 46 cm)
- **Spread:** 14 to 16 in. (36 to 41 cm)

COLEUS

55
COLEUS

Solenostemon scutellarioides

Copperhead

Height: 14 to 26 in. (36 to 66 cm)
Spread: 14 to 16 in. (36 to 41 cm)

This compact coleus features striking red/orange foliage with ruffled leaves edged in lime.

Heartbreaker

Height: 14 to 26 in. (36 to 66 cm)
Spread: 14 to 16 in. (36 to 41 cm)

Beautiful pink foliage pattern does not fade in the full sun! Matches Henna for habit.

Ruby Slipper

Height: 14 to 24 in. (36 to 61 cm)
Spread: 14 to 16 in. (36 to 41 cm)

Darker, more red version of Redhead. More compact and better branched than other red varieties. Works well in-ground and in containers in full sun and full shade.

Special Effects

Height: 14 to 24 in. (36 to 61 cm)
Spread: 14 to 16 in. (36 to 41 cm)

Compact, densely-branched collection shines in small container production. Bold foliage colors and unique leaf shapes are great in mixed containers – excellent landscape performance, too.
**ChargedUp™ Collection**

Charge landscapes with electrifying colors and patterns

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**Campfire**

*Height:* 14 to 28 in. (36 to 71 cm)

*Spread:* 14 to 24 in. (36 to 61 cm)

Features eye-catching orange foliage and proven performance in the landscape, similar to Redhead and Wasabi. Stays vibrant in sun and shade. Late flowering, with a similar habit to Henna.

**Coleosaurus**

*Height:* 14 to 28 in. (36 to 71 cm)

*Spread:* 24 to 36 in. (61 to 91 cm)

Features better branching and more saturated color with a distinct pattern.

**Dragon Heart**

*Height:* 14 to 28 in. (36 to 71 cm)

*Spread:* 14 to 28 in. (36 to 71 cm)

This full-bodied plant is great for the landscape or large pots, and performs well in both sun and shade. It features bright, exciting colors and a unique foliage pattern!

**Electric Lime®**

*Height:* 14 to 28 in. (36 to 71 cm)

*Spread:* 16 to 24 in. (41 to 61 cm)

Bright lemon-lime leaves electrify the shade and don’t fade in sun.

*ELECTRIC LIME is a U.S. registered trademark of Florida Foundation Seed Producers, Inc.*

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**COLEUS**

*Solenostemon scutellarioides*

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**TOP SELLER**

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BALLSEED.COM/WEBTRACK
CHARGEDUP COLLECTION continued

Henna
Height: 14 to 28 in. (36 to 71 cm)
Spread: 14 to 16 in. (36 to 41 cm)
Very uniform with serrated foliage in chartreuse to copper with dark burgundy undersides.

Indian Summer
Height: 14 to 28 in. (36 to 71 cm)
Spread: 14 to 16 in. (36 to 41 cm)
Multi-color earthenotes in red, green and brown deepen in high light.

Inferno
Height: 14 to 28 in. (36 to 71 cm)
Spread: 14 to 24 in. (36 to 61 cm)
Bolder than Campfire. Saturated orange coloration and textured leaves give it a WOW factor. Superior orange coloration and later-flowering than the competition. More consistent orange color, even in shady conditions.

Limewire
Height: 14 to 28 in. (36 to 71 cm)
Spread: 14 to 28 in. (36 to 71 cm)
Deep burgundy coleus has ruffled leaves that are edged in bright lime and won’t fade in full sun! Features great branching for a full-foliage plant.

Vulcan
Height: 14 to 28 in. (36 to 71 cm)
Spread: 14 to 28 in. (36 to 71 cm)
This plant has great branching and is similar in habit to Electric Lime. Eye-popping red coleus with pink veining is more intense in lower light. Holds the red in the “high light” of the sun and features an interesting leaf shape.
Volcanica™ Collection
High vigor with intense colors and blazing patterns

NEW French Quarter Improved
**Height:** 18 to 36 in. (46 to 91 cm)
**Spread:** 16 to 28 in. (41 to 71 cm)

Adds depth to coleus programs with the addition of a pink. Features pink, burgundy and green leaves. Familiar pattern of seed coleus, but more vigorous and much later-flowering. Provides brighter colors and better branching than original French Quarter.

NEW Solar Flare
**Height:** 18 to 36 in. (46 to 91 cm)
**Spread:** 16 to 28 in. (41 to 71 cm)

Brings a new pattern, new leaf shape and bright colors for sun and shade.

Redhead

**Height:** 18 to 36 in. (46 to 91 cm)
**Spread:** 16 to 28 in. (41 to 71 cm)

Copper leaves are outlined in golden yellow. Large-leaved and vigorous. Ships well as unrooted cuttings and liners.

Trusty Rusty

**Height:** 18 to 36 in. (46 to 91 cm)
**Spread:** 16 to 28 in. (41 to 71 cm)

Redhead displays bright red leaves that are the truest red color of our collection.

Vino

**Height:** 18 to 30 in. (46 to 76 cm)
**Spread:** 24 to 28 in. (61 to 71 cm)

Eye-catching plant has deep wine-colored leaves that grow darker in the sun. Upright habit.

Wasabi

**Height:** 18 to 36 in. (46 to 91 cm)
**Spread:** 16 to 28 in. (41 to 71 cm)

Durable and rugged for a coleus. Wasabi’s serrated chartreuse leaves hold their brilliant color without fading.

COLEUS
Solenostemon scutellarioides

NEW Redhead

Ballseed.com/webtrack

NEW Solar Flare

Trusty Rusty

Vino

Wasabi
COLEUS
Solenostemon scutellarioides

TrailBlazer™ Collection
Height: 6 to 10 in. (15 to 25 cm)
Spread: 18 to 24 in. (46 to 61 cm)
Trailing coleus with vibrant colors that can be grown in the shade.
Glory Road: Intense red and burgundy-colored leaves with green edges are cascading, making it perfect for hanging baskets, windowboxes and containers.
Road Trip: Tricolor leaves have a vibrant pink center. Great branching makes this coleus perfect for shade containers and combos.

Florida Sun Rose
Height: 12 to 18 in. (30 to 46 cm)
Spread: 12 to 14 in. (30 to 36 cm)
Rose-pink leaves are highlighted with burgundy and green speckles.

COLEUS 🌿
Solenostemon hybrid

Burgundy Wedding Train
Height: 10 to 12 in. (25 to 30 cm)
Spread: 24 to 36 in. (61 to 91 cm)
Distinctive "wedding train" trailing habit, dark color and unique texture are great for shade containers and baskets. Hardy until frost and thrives in the heat.

Lava Rose
Height: 6 to 10 in. (15 to 25 cm)
Spread: 18 to 24 in. (46 to 61 cm)
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.

Ruby Punch
Height: 12 to 18 in. (30 to 46 cm)
Spread: 16 to 18 in. (41 to 46 cm)
Unique, multicolored, fine-foliage coleus is sure to excite consumers and retailers. Compact habit allows for small pot production for growers and mixed container use for consumers.
FlameThrower™
Create sparks in small pots and mixes

COLEUS
Solenostemon scutellarioides

FlameThrower™
Height: 12 to 18 in. (30 to 46 cm)
Spread: 16 to 18 in. (41 to 46 cm)
Compact-to-medium coleus
features bold foliage colors ideal for small pots and mixed containers.
Its uniquely colored and shaped leaves add texture in the garden and containers.

Best Practices
Western Region
While a pinch will always benefit a coleus crop, we have new research that shows FlameThrower is successful with no pinch and no PGR for a target Week 15 finish. Please consult ballfloraplant.com for full details of trials.

Midwest, Canada and Northeast Region
Our latest culture trial study in the Midwest proved that FlameThrower can be grown with no pinch and no PGR for a Week 18 target date.

South and Southeast Region
After extensive trials, we recommend pinching, as it eliminates the need for PGR in most growing conditions.

Propagation Tips
• Quick-rooting crop (3-4 weeks in a 100-tray)
• No pinch needed if planted on time
• No rooting hormone necessary
• Low PGR requirement

Finish Crop Tips
• Fast to finish with low PGR needs
• If needed, paclobutrazol application at 10-15 spray, or 1-2 drench is effective

Cajun Spice
Chili Pepper
Chipotle
Habanero
Salsa Roja
Salsa Verde
Serrano
Spiced Curry
Sriracha

BALLSEED.COM/WEBTRACK
CUPHEA

*Cuphea hyssopifolia*

**‘Allyson Heather’**

**Height:** 8 to 12 in. (20 to 30 cm)

**Spread:** 16 to 18 in. (41 to 46 cm)

Compact and upright variety is well-suited to mixed containers and landscapes. Small, purple flowers over glossy green foliage. Heat and drought tolerant.

CUPHEA

*Cuphea purpurea*

**‘Firecracker’**

**Height:** 10 to 14 in. (25 to 36 cm)

**Spread:** 20 to 24 in. (51 to 61 cm)

Mounded and trailing plants are useful in baskets, mixed containers and as a groundcover. Bright red and purple flowers top solid green foliage.

CUPHEA

*Cuphea hybrida*

**Bells Collection**

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

**Spread:** 14 to 20 in. (36 to 51 cm)

Varieties root faster than comparable cuphea, reducing costs and production time. They can be produced at lower temperatures, decreasing the overall cost of Spring greenhouse production. Less special treatment is required because of their high resistance to Oedema.

**Honeybells**

The original pollinator-pleasing plant from the collection.

A 2019 University of Georgia Plants of Distinction award winner.

**‘Cherrybells’**

Deep orange-colored blooms make a show-stopping display in the landscape and in combos. Attracts bees and hummingbirds; a great pollinator plant.

**‘Sugarbells’**

Works great in mixed combos. Pollinator-friendly plant attracts hummingbirds all season long. Sugarbells is the only white cuphea currently on the market.
DIASCIA

_Diascia barberae_

**Juliet™**

- **Height:** 6 to 8 in. (15 to 20 cm)
- **Spread:** 4 to 6 in. (10 to 15 cm)

Compact and upright series is great for high-density pot programs.

Super-uniform across all varieties for habit and timing.

Tidy plants won’t tangle, so they need less bench space and no PGRs – easier to ship, too.

Suitable for 4 to 6-in. (10 to 15-cm) pots, 10 to 12-in. (25 to 30-cm) containers.
EVOLVULUS

Evolvulus nuttallianus

‘Blue Daze’
Height: 12 to 14 in. (30 to 36 cm)
Spread: 18 to 20 in. (46 to 51 cm)

Heat-tolerant, trailing plant works well in combination containers and baskets. True blue flowers are a consumer favorite.

EXACUM

Exacum affine

Powered by Ball FloraPlant®

Jupiter
Height: 4 to 6 in. (10 to 15 cm)
Spread: 7 to 8 in. (18 to 20 cm)

Doesn’t require pinching or PGRs for ease of growing. Jupiter will arrive at retail in great condition, while also providing an outstanding shelf life. The fun, double blooms make for a great impulse buy! Thrives as an indoor potted plant or outdoors in a protected, shaded area.
**Euphorbia hypericifolia**

**Breathless®**

**Blush**
- **Height:** 8 to 12 in. (20 to 30 cm)
- **Spread:** 20 to 24 in. (50 to 60 cm)

**White**
- **Height:** 10 to 15 in. (25 to 38 cm)
- **Spread:** 24 to 28 in. (61 to 71 cm)

- Durable Breathless fills in fast.
- Long-lasting plants require little water and no deadheading.
- Great for sun and shade mixed containers and holiday gift planters.
- Available as unrooted cuttings and rooted liners.

**NEW Flurry**
- **Height:** 10 to 15 in. (25 to 38 cm)
- **Spread:** 24 to 28 in. (61 to 71 cm)

- Double-flowered euphorbia has lots of flowers that make it look like a snowball.
- Compact habit.
- Perfect for use as a component plant in mixes.
Direct-Stick Callused Cutting

Less labor. Shortened crop time. Less shrink. Reduced input costs.

Many growers use Genesis™ cuttings in liner production due to the 100% rooting success and the fact that they can take it off mist multiple days earlier. This, in addition to all the other benefits listed here, make Genesis a better cutting than traditional URCs. Talk to your Ball Seed® Sales Representative or visit ballfloraplant.com for more information about mist recommendations.

LESS LABOR
Genesis can be direct-stuck into a finished container.

SHORTENED CROP TIME
The comparison on pg. 67 proves the time savings.

LESS SHRINK
All Genesis cuttings arrive presorted for uniformity and primed for the best consistency in propagation.

REduced input cost
It can be direct-stuck in cold frames and minimal heat environments.

Better branching and more flowers
Direct-sticking allows for maximum light penetration, leading to more branches, and therefore more color on the plant.

NO PROPAGATION REQUIRED
We found in our trials that, with night temperatures of 55°F (13°C) or above, you can direct-stick Genesis cuttings.
Retail-ready plants
TWO WEEKS faster!

Genesis cuttings offer the same speedy finish and the same top-quality plants as rooted liners, but two weeks faster than unrooted liners. In trials with **night temperatures of 55°F (13°C)**, here is a comparison of Genesis direct-stick vs. traditional unrooted liners.

**Genesis™ Cuttings**

- **Genesis Cuttings**
  - 8 days
  
  Arrive ready to direct-stick in the finished container.

- **Genesis Cuttings**
  - 6 weeks
  
  With the callus already on, roots initiate quickly.

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

**Traditional Unrooted Cuttings**

- **Traditional URC on arrival**
  - at 8 days
  
  Arrive ready to direct-stick in the finished container.

- **at 6 weeks**
  
  The Genesis is in full bloom, out the door and ready to sell, while the traditional URC is just starting to open flowers.

- **at 14 weeks**
  
  The Genesis is in full bloom, out the door and ready to sell, while the traditional URC is just starting to open flowers.
Presto™
Naturally compact and dark-leafed

Geranium Positioning

Dark Red

ZONAL GERANIUM

Presto™
Pelargonium hortorum

Height: 8 to 10 in. (20 to 25 cm)
Spread: 8 to 10 in. (20 to 25 cm)

Compact, dark leaf.
The most uniform, compact, dark-leafed zonal geranium series.
Presto produces a strong first flush of flowers – 3 to 4 blooms.
Naturally compact habit needs no PGRs, saving you time and money.
Best suited to 4 to 6-in. (10 to 15-cm) pots and 10 to 14-in. (25 to 35-cm) baskets.
<table>
<thead>
<tr>
<th>VARIETY</th>
<th>FLOWER TIMING</th>
<th>LEAF TYPE</th>
<th>HABIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brilliant Red</td>
<td>mid</td>
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<td>compact</td>
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<tr>
<td>Dark Red</td>
<td>mid</td>
<td>dark</td>
<td>compact</td>
</tr>
<tr>
<td>Deep Scarlet</td>
<td>mid</td>
<td>dark</td>
<td>compact</td>
</tr>
<tr>
<td>Orange</td>
<td>mid</td>
<td>dark</td>
<td>compact</td>
</tr>
<tr>
<td>Pink</td>
<td>mid</td>
<td>dark</td>
<td>compact</td>
</tr>
<tr>
<td>Pink+Eye</td>
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<td>compact</td>
</tr>
<tr>
<td>Pink Sizzle</td>
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<td>compact</td>
</tr>
<tr>
<td>Rose Flare</td>
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<td>compact</td>
</tr>
<tr>
<td>Salmon</td>
<td>mid</td>
<td>dark</td>
<td>compact</td>
</tr>
<tr>
<td>Violet</td>
<td>mid</td>
<td>dark</td>
<td>compact</td>
</tr>
<tr>
<td>White</td>
<td>mid</td>
<td>dark</td>
<td>compact</td>
</tr>
</tbody>
</table>
ZONAL GERANIUM

Fantasia®

A beautiful contrast of dark leaves and bright blooms

ZONAL GERANIUM
Pelargonium x hortorum

Fantasia®

Height: 12 to 14 in. (30 to 36 cm)
Spread: 12 to 14 in. (30 to 36 cm)

Medium vigor, dark leaf.

Dark leaves offer superb contrast to bright blooms.

Excellent uniformity for more plants per sq. ft. and optimum shipping density.

Targeted range of core and novelty colors simplifies selection.

Best suited to 5-in. (13-cm) and larger pots and hanging baskets.

NEW Lavender Sizzle: Features a lighter pink/lavender bloom with a well-defined center splash of color.

Also available as Genesis direct-stick callused cuttings.

Regional culture recommendations

This medium, dark-leaved line is production friendly in the West, as our trials only require Cycocel spray at 500 ppm 2 weeks after transplant to make a nice plant habit. In the Midwest, where there are lower light conditions, we suggest Cycocel spray at 750 ppm 2 weeks after transplant to give the plants more tone.
# Zonal Geranium

<table>
<thead>
<tr>
<th>Variety</th>
<th>Flower Timing</th>
<th>Leaf Type</th>
<th>Habit</th>
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<tbody>
<tr>
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<tr>
<td>Cardinal Red</td>
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</tr>
<tr>
<td>Cranberry Sizzle</td>
<td>mid</td>
<td>dark</td>
<td>medium</td>
</tr>
<tr>
<td>Dark Red</td>
<td>mid</td>
<td>dark</td>
<td>medium</td>
</tr>
<tr>
<td>Flamingo Rose</td>
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<td>medium</td>
</tr>
<tr>
<td>Fuchsia Berry</td>
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<td>medium</td>
</tr>
<tr>
<td>Orange</td>
<td>mid</td>
<td>dark</td>
<td>medium</td>
</tr>
<tr>
<td>Pink</td>
<td>mid</td>
<td>dark</td>
<td>medium</td>
</tr>
<tr>
<td>Purple Sizzle</td>
<td>mid</td>
<td>dark</td>
<td>medium</td>
</tr>
<tr>
<td>Salmon</td>
<td>mid</td>
<td>dark</td>
<td>medium</td>
</tr>
<tr>
<td>Scarlet</td>
<td>early</td>
<td>dark</td>
<td>medium</td>
</tr>
<tr>
<td>Shocking Blue</td>
<td>mid</td>
<td>dark</td>
<td>medium</td>
</tr>
<tr>
<td>Shocking Pink</td>
<td>mid</td>
<td>dark</td>
<td>medium</td>
</tr>
<tr>
<td>Strawberry Sizzle</td>
<td>mid</td>
<td>dark</td>
<td>medium</td>
</tr>
<tr>
<td>Violet</td>
<td>mid</td>
<td>dark</td>
<td>medium</td>
</tr>
<tr>
<td>White</td>
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*Uniform Timing & Habit*

**TOP SELLER**

<table>
<thead>
<tr>
<th>Variety</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pink</td>
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</tr>
<tr>
<td>Shocking Pink</td>
<td><img src="Image" alt="Shocking Pink" /></td>
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<tr>
<td>Strawberry Sizzle</td>
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</tr>
<tr>
<td>Flamingo Rose</td>
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</tr>
<tr>
<td>Salmon</td>
<td><img src="Image" alt="Salmon" /></td>
</tr>
<tr>
<td>Orange</td>
<td><img src="Image" alt="Orange" /></td>
</tr>
<tr>
<td>Fuchsia Berry</td>
<td><img src="Image" alt="Fuchsia Berry" /></td>
</tr>
<tr>
<td>Cranberry Sizzle</td>
<td><img src="Image" alt="Cranberry Sizzle" /></td>
</tr>
<tr>
<td>Scarlet</td>
<td><img src="Image" alt="Scarlet" /></td>
</tr>
<tr>
<td>Cardinal Red</td>
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</tr>
<tr>
<td>Dark Red</td>
<td><img src="Image" alt="Dark Red" /></td>
</tr>
<tr>
<td>Violet</td>
<td><img src="Image" alt="Violet" /></td>
</tr>
<tr>
<td>Purple Sizzle</td>
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</tr>
<tr>
<td>Shocking Blue</td>
<td><img src="Image" alt="Shocking Blue" /></td>
</tr>
</tbody>
</table>

**NEW**

**ZONAL GERANIUM**

[BALLSEED.COM/WEBTRACK](http://BALLSEED.COM/WEBTRACK)

Page 71
ZONAL GERANIUM

Dynamo™
Powerhouse of color uniformity

Salmon
ZONAL GERANIUM

**Dynamo™**

*Pelargonium hortorum*

**Height:** 12 to 14 in. (30 to 36 cm)

**Spread:** 12 to 14 in. (30 to 36 cm)

**Medium vigor, green leaf.**

Dynamo is the powerhouse among zonal geraniums: all the key colors you need in a uniform series.

Matches for habit, flower timing and branching to ship all at once.

Powerful first flush of color with more continuous blooms per plant.

It has big, bright flowers and crisp, medium green leaves.

The ultimate geranium for garden beds and large containers.

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>FLOWER TIMING</th>
<th>LEAF TYPE</th>
<th>HABIT</th>
</tr>
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<tbody>
<tr>
<td>Dark Red</td>
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<tr>
<td>Dark Salmon</td>
<td>mid</td>
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<tr>
<td>Hot Pink</td>
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</tr>
<tr>
<td>Light Pink</td>
<td>mid</td>
<td>green-zoning</td>
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</tr>
<tr>
<td>Orange</td>
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<td>green</td>
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</tr>
<tr>
<td>Pink Flare</td>
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<td>green-zoning</td>
<td>medium-vigorous</td>
</tr>
<tr>
<td>Purple</td>
<td>mid</td>
<td>green</td>
<td>medium</td>
</tr>
<tr>
<td>Red</td>
<td>early</td>
<td>green-zoning</td>
<td>medium-vigorous</td>
</tr>
<tr>
<td>Salmon</td>
<td>mid</td>
<td>green-zoning</td>
<td>medium</td>
</tr>
<tr>
<td>Scarlet</td>
<td>mid</td>
<td>green</td>
<td>medium</td>
</tr>
<tr>
<td>Violet</td>
<td>mid</td>
<td>green-zoning</td>
<td>medium</td>
</tr>
<tr>
<td>White</td>
<td>mid</td>
<td>green-zoning</td>
<td>medium</td>
</tr>
</tbody>
</table>

**Uniform Timing & Habit**
Galaxy ™

ZONAL GERANIUM

Galaxy™

ZONAL GERANIUM

Pelargonium hortorum

Height: 16 to 20 in. (41 to 51 cm)
Spread: 16 to 20 in. (41 to 51 cm)

High vigor, green leaf.

Galaxy produces mounded plants that are vigorous enough to keep their large, semi-double blooms all season in large containers and landscapes, driving higher sales at retail and creating satisfied gardeners.

The series offers excellent garden performance in an easy-to-control, vigorous greenhouse habit.

Superior garden performance when compared to other vigorous, green-leaf zonal geraniums.

NEW Dark Red Improved: Offers a darker red color and the flower resists shattering.

NEW Raspberry Sizzle: Features large, striking maroon-red blooms.

Sarah Hernandez Swofford
Product Manager

“The Galaxy Series has been tested in 8 different regional trial locations where we confirmed its superior garden performance over all competitors in vigorous green leaf geraniums, as well as its equal performance to competitors in vigorous interspecific geraniums. In addition to this high standard for garden performance, Galaxy is easy to grow in any region.”
<table>
<thead>
<tr>
<th>VARIETY</th>
<th>FLOWER TIMING</th>
<th>LEAF TYPE</th>
<th>HABIT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NEW Dark Red Improved</strong></td>
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<td>vigorous</td>
</tr>
<tr>
<td>Pink</td>
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<td>green-zoning</td>
<td>vigorous</td>
</tr>
<tr>
<td>Purple</td>
<td>mid</td>
<td>green</td>
<td>vigorous</td>
</tr>
<tr>
<td><strong>NEW Raspberry Sizzle</strong></td>
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<td>green-zoning</td>
<td>vigorous</td>
</tr>
<tr>
<td>Red</td>
<td>mid</td>
<td>green-zoning</td>
<td>vigorous</td>
</tr>
<tr>
<td>Salmon</td>
<td>mid</td>
<td>green-zoning</td>
<td>vigorous</td>
</tr>
<tr>
<td>Violet</td>
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<td>green-zoning</td>
<td>vigorous</td>
</tr>
<tr>
<td>Watermelon</td>
<td>mid</td>
<td>green-zoning</td>
<td>vigorous</td>
</tr>
<tr>
<td>White</td>
<td>mid</td>
<td>green</td>
<td>vigorous</td>
</tr>
</tbody>
</table>
IVY GERANIUM

Focus™

Compact and dark-leafed for dramatic baskets

Red Ice
**IVY GERANIUM**

*Pelargonium x peltatum*

**Focus™**

**Height:** 8 to 10 in. (20 to 25 cm)

**Spread:** 12 to 14 in. (30 to 36 cm)

**Compact, dark leaf.**

The only compact, dark-leafed ivy geranium series on the market.

Habit stays tight and controlled for growing in pot-tight basket production.

Naturally compact habit simplifies small pot and quart production.

Dark leaves add attractive contrast for greater appeal and value.

Perfect uniformity across all colors.

<table>
<thead>
<tr>
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<th>FLOWER TIMING</th>
<th>LEAF TYPE</th>
<th>HABIT</th>
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<tbody>
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<td>Burgundy</td>
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<tr>
<td>Red</td>
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<td>Red Ice</td>
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</tr>
<tr>
<td>Rose</td>
<td>early</td>
<td>dark</td>
<td>compact</td>
</tr>
<tr>
<td>Shocking Blue</td>
<td>early</td>
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<td>compact</td>
</tr>
<tr>
<td>White</td>
<td>early</td>
<td>dark</td>
<td>compact</td>
</tr>
</tbody>
</table>
IVY GERANIUM

Precision™ Dark Burgundy

Early flowering, exact uniformity — precisely in demand
IVY GERANIUM
Pelargonium x peltatum

Precision™
Height: 10 to 12 in. (25 to 30 cm)
Spread: 14 to 18 in. (36 to 46 cm)
Medium vigor, green leaf.
Specially selected for early flowering and excellent uniformity.
Oedema-resistant for clean foliage at retail and better show throughout the season.
Well-suited for 4.5-in. (11-cm) pots and large baskets.
Also available as Genesis direct-stick callused cuttings.

<table>
<thead>
<tr>
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<th>LEAF TYPE</th>
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<tr>
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<td>green</td>
<td>medium mounded</td>
</tr>
<tr>
<td>Dark Salmon</td>
<td>early/mid</td>
<td>green</td>
<td>medium mounded</td>
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<td>Lavender Blue</td>
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<td>medium</td>
</tr>
<tr>
<td>Pink • Pink Flamingo</td>
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<td>medium mounded</td>
</tr>
<tr>
<td>Red</td>
<td>early/mid</td>
<td>green</td>
<td>medium mounded</td>
</tr>
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<td>Red Ice • Rose • Ruby</td>
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<td>green</td>
<td>medium mounded</td>
</tr>
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<td>green</td>
<td>medium-compact mounded</td>
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</tbody>
</table>

White Red Eye  Pink  Pink Flamingo
Rose  Dark Salmon  Red Ice
Red  Ruby  Burgundy Ice
Burgundy  Dark Burgundy  Lavender Blue
Piñata

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

Offers a nice, mounding to upright habit and bold, bright, hot pink blooms with cream and gold-striped foliage. Exceptional heat and drought tolerance. Eye-catching color all Summer long!

HELICHRYSUM

Helichrysum petiolare

‘Licorice’

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

Low-growing and semi-trailing, silvery green-leaved plant is useful as an accent in containers and baskets.

HELIOTROPE

Heliotropium arborescens

‘Marine’

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

Upright plant performs well in landscapes, baskets and patio planters.

IRESINE

Iresine hybrid

‘Blazin’ Lime’

Height: 12 to 16 in. (30 to 41 cm)
Spread: 16 to 20 in. (41 to 51 cm)

Vigorous, upright and full plants feature variegated foliage with vibrant rose stems; shows more chartreuse in higher light. Perfect for large mixed containers and landscapes.

‘Blazin’ Rose’

Height: 18 to 30 in. (46 to 76 cm)
Spread: 16 to 20 in. (41 to 51 cm)

Striking multicolor leaves and strong vigor assure that the plant won’t get lost in large mixed plantings; also ideal for landscapes.
EXOTIC IMPATIENS

Impatiens walleriana

**Patchwork™**

**Height:** 10 to 16 in. (25 to 41 cm)

**Spread:** 12 to 14 in. (30 to 36 cm)

Nothing else has these unique novelty patterns and colors!

Low-maintenance, grower-friendly impatiens require no special culture.

Best for premium, 12 to 14-in. (30 to 35-cm) baskets and large container programs. Also suitable for 6-in. (15-cm) pots, quarts and gallons.

**Varieties**

- **Pink Shades**
- **Peach Prism**
- **Cosmic Orange**
- **Cosmic Burgundy**
Glimmer™
IMPATIENS

MixMasters Glimmerazzi (Glimmer Bright Red & White Double Impatiens)
**DOUBLE IMPATIENS**

*Impatiens walleriana*

**Glimmer™**

**Height:** 10 to 16 in. (25 to 41 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)

This new double impatiens series with beautiful rose-like blooms is highly resistant to *Plasmopara destructor*, the cause of Impatiens downy mildew! Although following a routine preventative spray treatment for downy mildew is still recommended, growers and consumers can be confident that these impatiens will continue to thrive and survive.

---

**Salmon**

- **White Hot Pink**
- **Bright Red**
- **Appleblossom**
- **Hot Pink**
- **Dark Red**
- **Salmon**
- **Burgundy**

Finding color components for the shade can be challenging. Look no further than Glimmer Impatiens! Try mixing it with a low-vigor ipomoea or torenia.

---

Scan to hear about Glimmer’s disease resistance!
DOUBLE IMPATIENS

Fiesta™
Big and bold double blooms for the shade

Stardust Pink
**DOUBLE IMPATIENS**

**Fiesta™**

*Impatiens walleriana*

**Height:** 10 to 16 in. (25 to 41 cm)

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

Elegant shade selection has the biggest, most fully double rose-like blooms.

Fast, easy and economical to grow in bench-run programs.

Excellent branching and uniformity mean fewer PGRs and less stretching.

Suitable for 4 to 6-in. (10 to 15-cm) pots and 10 to 12-in. (25 to 30-cm) containers.
IMPATIENS

Impatiens hawkeri

SunPatiens® Compact

**Height:** 12 to 32 in. (30 to 81 cm)
**Spread:** 12 to 26 in. (30 to 66 cm)

Tolerates all weather, from Spring through hard frost.

Unique varieties love sun, as well as shade.

Compact series is bred for small pot production and is resistant to disease.

Exceptional outdoor performance.

SunPatiens also offers mixes containing three colors that have been trialed and proven to grow well together. The components are packaged and shipped together, so you can stick them in the same container to create these sensational color combos.

**NEW Pink Beryl Mix:** Lavender Splash, Lilac and Rose Glow.

**Best Friends Mix:** Classic White, Rose Glow and Lilac.

**Forever Summer Mix:** Coral Pink, Classic White and Purple.

**Happy Days Mix:** Rose Glow, Orchid Blush and Hot Pink.

**Hawaiian Sunset Mix:** Coral Pink, Orchid Blush and Purple.

**Summer Salsa Mix:** Coral Pink, Hot Coral and Red.

SUNPATIENS is bred by Sakata.
SUNPATIENS is a registered trademark of Sakata.
INTERSPECIFIC IMPATIENS

Hot Pink  Coral Pink  Hot Coral  Orange  Electric Orange

Deep Rose  Tropical Rose  Rose Glow  Red  Deep Red

Lavender Splash  Orchid Blush  Lilac  Purple Candy  Purple

NEW Pink Beryl Mix  Best Friends Mix  Forever Summer Mix

Happy Days Mix  Hawaiian Sunset Mix  Summer Salsa Mix

BALLSEED.COM/WEBTRACK
NEW GUINEA IMPATIENS

Clockwork™

A compact star in small pots and mixed containers

Orange, Purple & Orange Stripe
**NEW GUINEA IMPATIENS**

*Impatiens hawkeri*

**Clockwork™**

**Height:** 8 to 10 in. (20 to 25 cm)

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

Bred to be extremely uniform in habit and flower timing across all colors, blooming all in the same week. Beneficial to greenhouse growers, as culture does not need adjusting. Since all colors finish together, they can be shipped to retail at the same time. Series truly performs like clockwork.

Ideal for quart and gallon containers, and hanging baskets.
NEW GUINEA IMPATIENS

Impatiens hawkeri

Celebration

Loads of color for bigger pots and baskets

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

Big impact for larger container programs.
Vigorous and well branched, fills in fast with fewer plants per pot.
Full color range delivers excellent greenhouse performance.
Large blooms cover the plant even in high heat.

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>FLOWER TIMING</th>
<th>LEAF TYPE</th>
<th>HABIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apricot</td>
<td>early</td>
<td>dark green</td>
<td>vigorous</td>
</tr>
<tr>
<td>Bright Salmon</td>
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<td>dark green</td>
<td>vigorous</td>
</tr>
<tr>
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<td>mid</td>
<td>green</td>
<td>compact-medium</td>
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<tr>
<td>Electric Rose</td>
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</tr>
<tr>
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</tr>
<tr>
<td>Tropical Peach</td>
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<td>medium</td>
</tr>
<tr>
<td>White</td>
<td>early</td>
<td>dark green</td>
<td>medium-vigorous</td>
</tr>
</tbody>
</table>
Spotlight™

A compact star in small pots and mixed containers

**IPOMOEA**

*Ipomoea batatas*

**Spotlight™**

- **Height:** 8 to 10 in. (20 to 25 cm)
- **Spread:** 16 to 20 in. (41 to 51 cm)

The first compact ipomoea series offers popular heart and cut-shaped leaf varieties!

- Spotlight’s compact, naturally branched habit is ideal for packs and small pots. Great for mixes, too.
- The series features bold, eye-catching colors and holds its color in extreme heat.
- It is a great compact solution for southern regions.

**Best Practices**

Direct-stick the Spotlight
Unrooted Cutting into a 6-pack.
No pinching is needed. Use a B-Nine 2,500 ppm spray 2 weeks after stick. The pack will be ready after 4 weeks.

**Mixed container featuring Red**

**Mixed container featuring Lime**

**Ideal combo choice for southern growers.**
SolarPower™

Medium habit, plus energy and color for containers and landscapes

SolarPower™

Height: 10 to 12 in. (25 to 30 cm)
Spread: 24 to 36 in. (61 to 91 cm)

Series features heart and cut-shaped leaf varieties!

Densely branched SolarPower holds its shape and color in the landscape and mixed combos all Summer long, and it works well with companion plants.

Medium vigor and a well-branched habit.

Most efficient in production.

SolarPower’s tidy habit allows for more plants per rack at retail. Best for gallon containers, 10 to 12-in. (25 to 30-cm) hanging baskets, mixed containers and landscapes.

A small-pot solution for northern regions.
SolarTower™

First-ever self-climbing ipomoea

Add some height in premium combo planters with SolarTower. It also mixes well with thunbergia to color a trellis.
**SolarTower™**

**Height:** 48 to 84 in. (122 to 213 cm)
**Spread:** 36 to 48 in. (91 to 122 cm)

The first-ever self-climbing *Ipomoea*! SolarTower climbs very quickly and fills a large pot on a quick turn.

Climbing plant is ideal for use with a trellis, as a topiary or on a vertical wall planting.

Recommended pot size is 1 gallon or larger, with some kind of trellis, making a huge impact at retail.

Also recommended as a thriller in mixed combos, climbing up a small bamboo stick.

Easy for the grower to maintain and produce, as it should not need any trimming, PGRs or training to climb the trellis.

Provides instant garden décor for consumers.
Little Lucky™
Perfect for pot-tight production

Lantana Positioning

- Little Lucky
- Lucky Shamrock
- PassionFruit
- Bloomify
- Landmark

Mixed container featuring Hot Pink
Little Lucky™

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

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

Uniform across all colors; great for bench runs and pot-tight production.

Up to 3 weeks earlier than other compact lantanas.

Low-maintenance varieties have long flowering into Summer with low seed set.

Across all colors of Little Lucky Lantana, the simple growing solution is to pinch, with no PGRs.

Perfect for 4.5-in. (11-cm) programs.
"High-impact color with flowers that sit on top make for great mass-planted beds that can be viewed at a distance. This heat-loving series has a controlled growth habit and is quick to color. A grower-friendly choice for season-extending sales across North America."

**Best Practices**

**Success in Propagation**
- High priority URC
  - Stick same day received
- Pinched liner produces the best finished quality
  - Leave 2 sets of leaves after the pinch
- Florel is a good PGR option
  - 200-300 ppm
- Florel + Configure is a good tank mix
  - Florel (250-300 ppm) + Configure (50-75 ppm)

**North Region**
The best treatment for Lucky varieties in propagation was the Florel 250 ppm/Configure 50 ppm treatment. We used two applications – the first as a spray 28 days after stick, and the second 1 week after transplant. We did not need additional PGRs in our trial. If you require a more compact habit, apply B-Nine 5,000 ppm tank mix with Cycocel 1,000 ppm as a spray 2-4 weeks after transplant.

**South Region**
The best treatment for Lucky varieties in this region in propagation was the Florel 300 ppm/Configure 75 ppm treatment. We used two applications – the first as a spray 21 days after stick, and the second 3 weeks after transplant. We did not need additional PGRs in our trial. If you require a more compact habit, apply B-Nine 2,500 ppm tank mix with Cycocel 750 ppm as a spray 2-4 weeks after transplant.
LANTANA
Lantana camara

Lucky™
Height: 12 to 16 in. (30 to 41 cm)
Spread: 12 to 14 in. (30 to 36 cm)
Excellent branching means less pinching, fewer PGRs.
Stands up to heat, drought and other stressful conditions.
Medium-vigor series of choice for mixed containers and landscapes.
NEW Yellow Improved: Offers a more mounding, spreading habit.

Mixed container featuring Pot Of Gold

NEW FunFusions Radiant in Río Grande
(Sunrise Rose, AngelMist Spreading Dark Purple Angelonia, RioGrande Yellow Purslane)
Shamrock™
Works like a charm in hanging baskets

Maria Bolinger
Territory Manager
Southeast & Southwest Regions

“Lantana Shamrock is the newest addition to our Lantana lineup, with a higher vigor than Little Lucky but not as spreading as Lucky. Now you have ‘The one’ that is perfect for combos, hanging baskets and beds! Its mounded habit has enough vigor to fill in but will not overpower, especially in combos.

“What I love most about Shamrock is its dark green foliage and its extremely branched habit. This makes it easy to produce well-branched liners that are perfect to fill in a wide range from 4-in. pots to large combo containers. Perfect for Spring and season extender production. All colors have nice large blooms, too!”

Best Practices

Propagation Tips
Stick immediately upon arrival. Apply preventive fungicide spray after sticking.

Finish Crop Tips
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.

Lantana is responsive to a B-Nine 2,500-5,000 ppm and Cyco 1,000-1,500 ppm tank mix spray, as well as Florel spray at 300-400 ppm, Bonzi spray at 20-40 ppm and Sumagic spray at 10-20 ppm.
**LANTANA**

*Lantana camara*

**Shamrock™**

*Height:* 12 to 16 in. (30 to 41 cm)

*Spread:* 12 to 14 in. (30 to 36 cm)

This new medium-vigor series of lantana has a well-branched, mounded habit.

Uniform across all colors.

High-utility series works great in a wide-range of pot sizes from quarts to hanging baskets.

**NEW Orange Flame Improved:** Features a darker orange flower color.

**NEW Red:** Features a more vivid red color than the competition.

**NEW Rose Gold:** Offers a lighter rose flower color and larger gold center than competing varieties.
Bloomify™
First certified sterile lantana won’t multiply

LANTANA (Lantana camara)

Bloomify™

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

The first certified sterile lantana series expands with new color options.

Completely sterile, so it won’t go out of flower in the heat of Summer.

Two weeks later to flower than the Lucky Series, with a nice ball-shaped habit.

Medium-vigorous mounded lantana keeps a nice shape in the landscape.

NEW Pink Improved: Improved for a darker pink flower color. Offers verified plant sterility.

NEW White: Verified plant sterility means it won’t stop producing pretty white blooms all season long.
NEW PassionFruit

LANTANA (Lantana camara)

**Height:** 12 to 16 in. (30 to 41 cm)
**Spread:** 12 to 14 in. (30 to 36 cm)

Trailing, “spreading” lantana has abundant flowers and dark green foliage.

Perfect habit for hanging baskets.

Multicolor flowers are ideal for monocolor containers.

Never cycles out of flower!
LANTANA
Lantana camara

SunDance™
Height: 12 to 16 in. (30 to 41 cm)
Spread: 14 to 18 in. (36 to 46 cm)
Great for mixed combos that include SunPatiens® and SuperCal® varieties.
Provides worry-free performance in any application.
SUNDANCE is a U.S. trademark of Sakata.

‘New Gold’
Height: 15 to 20 in. (38 to 51 cm)
Spread: 18 to 24 in. (46 to 61 cm)
Mounded and spreading; well-suited to landscapes.

LANTANA
Lantana montevidensis

‘Purple Falls’
Height: 20 to 24 in. (51 to 61 cm)
Spread: 15 to 20 in. (38 to 51 cm)
Large clusters of purple flowers attract butterflies and bloom abundantly all Summer long. Faster pot fill and better branching than Purple Trailing with heat and drought tolerance. They provide a colorful addition to containers, hanging baskets and borders.
Landmark™

Makes its mark in the landscape with vivid color, high vigor

Landmark™
Lantana camara

**Height:** 15 to 20 in. (38 to 51 cm)
**Spread:** 18 to 24 in. (46 to 61 cm)
Consistent vigor for fast fill and fuller canopies.
Stays controlled from bench to garden.
Thrives in extreme heat, humidity and drought.
Best suited for 6-in. (15-cm) pots to gallons.

Sunrise Rose

White | Yellow | Gold | Citrus
--- | --- | --- | ---

Rose Glow | Sunrise Rose | Red

BALLSEED.COM/WEBTRACK
**LOBELIA**

**Early Springs™**

Early to rise for Spring sales, also takes the heat

**LOBELIA**

*Lobelia hybrida*

**Early Springs™**

**Height:** 6 to 8 in. (15 to 20 cm)

**Spread:** 6 to 10 in. (15 to 25 cm)

Early Springs is a uniform series.

Try mixing colors for a great-looking monoculture basket.

Compact habit allows for pot-tight production with minimal PGRs and easy shipping.

Can be grown cool for energy savings, but also performs beautifully in heat.

Just one plant fills a quart or gallon container.

**NEW Lavender:** New addition is heat tolerant and stays in flower 2 weeks longer than the competition.

**NEW Sky Blue:** The addition of this core color expands the series to match the competition. It is also heat tolerant and its flowers last 2 weeks longer than competitors.
Waterfall™
Cascading color in baskets and combos

**Lobelia erinus**

**Waterfall™**

- **Height:** 8 to 12 in. (20 to 30 cm)
- **Spread:** 24 to 30 in. (61 to 76 cm)

Vigorous, well-branched Waterfall fills pots fast.
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 Fall markets for season-extending sales.

**NEW Dark Blue:**
A core color expands the series.
Easy Breezy™
The easy choice for longer-flowering lobularia

**LOBULARIA**
*Lobularia maritima*

**Easy Breezy™**

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

**Spread:** 12 to 16 in. (30 to 41 cm)

Excellent branching and 2 to 3 weeks longer flowering in the heat make Easy Breezy the only choice in lobularia.

Features a non-split habit late in the production cycle for higher sell-through.

Medium habit makes for perfectly balanced mixes.

Requires less to no PGRs for reduced production costs.

Easy to ship, with more plants per rack.

---

**Pink & White**

Easy Breezy is the only lobularia that can last 2-3 weeks longer in the Texas heat when compared to leading competitors.
LAMIASTRUM

*Lamiastrum galeobdolon*

**‘Jade Frost’**
*Height:* 8 to 10 in. (20 to 25 cm)
*Spread:* 36 to 48 in. (91 to 122 cm)

Fast-growing, trailing accent plant is well-suited to mixed planters and baskets.

LAMIUM

*Lamium maculatum*

**‘Beacon Silver’**
*Height:* 6 to 8 in. (15 to 20 cm)
*Spread:* 36 to 48 in. (91 to 122 cm)

Trailing, mounded variety has silver leaves with green margins, and pinkish-purple flowers at the end of the stems all Summer. Prefers evenly moist, well-drained soil.

**‘White Nancy’**
*Height:* 6 in. (15 cm)
*Spread:* 36 to 48 in. (91 to 122 cm)

One of the fastest-growing groundcovers has silver and green variegated foliage, with pure white flowers in early Summer.

LYSIMACHIA

*Lysimachia nummularia*

**‘Goldilocks’**
*Height:* 2 to 4 in. (5 to 10 cm)
*Spread:* 12 in. (30 cm)

Low-care, trailing plant has lime green leaves that turn iridescent in the sun. Self-cleaning. Recommended for use in mixed containers. Temperate perennial in Zones 3 to 10.
Diamantina™ Collection

Sun and heat-loving varieties

Diamantina™ Collection

These series are part of the Diamantina™ Collection of genetics bred by mandevilla and dipladenia expert Lannes of France. These sun and heat-loving varieties are earlier to bloom, with better branching and blooming capacity than the competition.

MANDEVILLA vs. DIPLADENIA

Mandevilla

• Large, textured leaves
• Larger blooms
• More vigorous habit

Dipladenia

• Part of the mandevilla family
• Small, waxy leaves
• More compact habit

Powered by Ball FloraPlant®
**DIPLADENIA/MANDEVILLA**

**Jade**
- **Height:** 24 to 36 in. (61 to 91 cm)
- **Spread:** 8 to 10 in. (20 to 25 cm)

Great for patio or garden containers, without a trellis. Adaptable from quarts to large mixed containers.

**Tourmaline**
- **Height:** 12 to 24 in. (30 to 61 cm)
- **Spread:** 12 in. (30 cm)

Bold, beautiful blooms on a unique, non-vining habit are perfect for gardens, smaller containers, patio pots and mixed combinations. Although a trellis is not necessary, support can be used to encourage climbing. A great option for mandevilla programs!

**Opal**
- **Height:** 12 to 60 in. (30 to 152 cm)
- **Spread:** 12 to 16 in. (30 to 41 cm)

Great alone or mixed with other sun-loving varieties in patio or garden containers with a support (like a trellis). Includes colors not available in any other mandevilla/dipladenia series. Programmable for a wide range of sizes in trellised production.

**Coral**
- **Height:** 12 to 60 in. (30 to 152 cm)
- **Spread:** 12 to 16 in. (30 to 41 cm)

Great alone or mixed with other sun-loving varieties in patio or garden containers with a support. Requires hand-training to a trellis. Programmable for a wide range of sizes in trellised production to fit any tropical lover’s space!
MECARDONIA

Mecardonia hybrid

Little Sunshine
Height: 4 to 6 in. (10 to 15 cm)
Spread: 14 to 18 in. (36 to 46 cm)
USDA Zone: Zone 10
This easy-to-produce variety flowers from Spring to Fall, making it versatile in programs all year long. It is very tolerant of cool and warm conditions, and it will not cycle out of color at the point of sale. It works well in 4-in. (10-cm) pots to hanging baskets, and offers great performance in the landscape.

NEMESIA
Nemesia fruticans

Aromatica™
Height: 12 to 14 in. (30 to 36 cm)
Spread: 10 to 12 in. (25 to 30 cm)
The best-matched nemesias for size and flower timing, with a wide color array. Very free-flowering, well-branched plants are economical and easy to produce. Compact, upright, fragrant plants.

NEMESIA
Nemesia x hybrid

Powered by Ball FloraPlant®

SunGlow™
Height: 12 to 14 in. (30 to 36 cm)
Spread: 10 to 12 in. (25 to 30 cm)
Blooms from early Spring to Summer and offers great heat tolerance. Easy to finish and perfect for quart production. Fragrant, delicate flowers are showstoppers in the garden in early Spring through Summer.

SUNGLOW is a U.S. trademark of Penhow Nurseries Ltd.
OSTEOSPERMUM

Osteospermum ecklonis

**Voltage™ Gold**

**Height:** 10 to 16 in. (25 to 41 cm)

**Spread:** 24 to 28 in. (61 to 71 cm)

Early-flowering osteo with lots of golden-yellow blooms puts on a show! This color addition to the Voltage™ collection flowers earlier and offers the same great habit and performance as Voltage Yellow and White with an extended bloom time!

OSTEOSPERMUM

Osteospermum hybrid

**Voltage™ White**

**Height:** 12 to 18 in. (30 to 46 cm)

**Spread:** 14 to 20 in. (36 to 51 cm)

The best Summer-performing osteo is great for growing in all climates. Traditional daisy has white petals with a bright yellow center. Blooms a little later than Voltage Yellow, with a more compact habit.

**Voltage™ Yellow**

**Height:** 10 to 16 in. (25 to 41 cm)

**Spread:** 24 to 28 in. (61 to 71 cm)

First osteo in bloom is also the last out of bloom – vibrant color shouts SPRING! Mounded habit with flexible stems that sleeve, ship and show well. Needs fewer PGRs to produce naturally full and compact plants. Ideal for large baskets, quarts and gallons.
OSTEOSPERMUM

Osteospermum ecklonis

Blue Eyed Beauty

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

Change the way you look at osteos – perfect for premium, early Spring sales. The bright Spring yellow and contrasting center grab your eye from afar. Exceptional bicolor has excellent habit, flower presentation and shelf life.

Blushing Beauty

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

Makes a colorful trio with Blue Eyed Beauty and ‘Sunshine Beauty,’ matching well in habit and timing. The golden yellow color and purple/pink center offer a warm, romantic touch. Fits in our collection of exciting colors for unique-looking osteospermum.

‘Sunshine Beauty’

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

‘Sunshine Beauty’ has vibrant orange edges that fade into a yellow center. New blooms emerge in brighter, more vibrant hues that lead to three shades of blooms at one time.
Serenity™
Magical colors and uniformity

**OSTEOSPERMUM**

Osteospermum ecklonis

**Serenity™**

**Height:** 10 to 14 in. (25 to 36 cm)

**Spread:** 14 to 20 in. (36 to 51 cm)

Exceptional habit and uniform timing for early-season bench-run production.

“Magic” colors change as flowers fully open – a plus in consumers’ eyes!

Low-energy crop produces full, mounded plants with tighter bench spacing and fewer PGRs.

All varieties feature the same excellent branching.

Well-suited to cool-season containers and landscapes: a full-season performer in coastal markets.

**NEW Electric Rose:**

New addition to the series branches very well and brings more bright color for Spring.

**NEW White Improved:**

Shows better branching, a stronger plant and better flower power.

---

**Best Practices**

Here are some growing tips for getting the best performance from Serenity.

**Propagation**

- Utilize rooting hormone.
- Avoid wilting in the first 4-5 days (reemay or high mist frequency in the first 4-5 days).
- Soil temps: 68-72°F (20-22°C).
- PGRs: Use a B-Nine/Cycocel tank mix spray to tone if needed (2,500 ppm B-Nine/750 ppm Cycocel).
- Transplant a pinched liner for best flower power at point of sale.

**After Transplant**

- 10-12 weeks of crop time will provide the best quality.
  - Establish: 3-4 weeks at warm temperatures of 62-66°F (17-19°C).
  - Cool for flower power: 3-4 weeks to force at temperatures of 55-65°F (13-18°C).
- PGRs: Use a B-Nine/Cycocel tank mix to tone early before bud formation.
  - Paclobutrazol drench: 1-3 ppm after buds form to minimize delay.

---

**NEW White Improved**

**NEW Electric Rose**

Deep Yellow

Lavender Frost

Pink Magic

Coral Magic

Bronze

Deep Purple

Pink

Rose Magic

Red
Bee’s Knees™
The BEST yellow petunia!

Bee’s Knees

Petunia x hybrida

Height: 8 to 10 in. (20 to 25 cm)
Spread: 16 to 22 in. (41 to 56 cm)

Bee’s Knees is filled with lush blooms and puts on a high-impact show all season long with very little attention.

It brings the most intense yellow petunia to the market, along with the best performance!

This variety holds its yellow color better than any other yellow petunia.

It features dark green foliage and outstanding branching.

Versatile, works well in containers and the landscape.

A 2020 Medal of Excellence Reader’s Choice Award winner.
FunFusions Trailblazing in Toronto
(Bee’s Knees Petunia, Firehouse Burgundy Verbena, TrailBlazer Road Trip Coleus)
PETUNIA
Petunia x hybrida

CannonBall™

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

Perfect for premium pots and hanging baskets, CannonBall offers excellent uniformity in habit and timing across all colors. Compact habit makes it easy to grow for pot-tight production. The series is early to flower, and all colors finish within a week of each other.

Plants feature good branching and don't require pinch or PGRs.

Tanya Carvalho
Territory Manager Canada

“I am so excited about our CannonBall series, as it is a win for the grower! The series is early, compact and requires no pinch or PGR applications. This makes them the perfect first petunia to ship out of the greenhouse and to the retailers.”

• No pinch. No PGRs needed.
• Our brand-new breeding of CannonBall is upgraded for all mixes with a full range of the colors you’re looking for in petunias.
• With improved propagation, habit and uniformity, all colors finish within a week of each other.
MixMasters Rosé Everyday
(Pink, MegaCopa White Bacopa, Cabaret Pink Calibrachoa)

MixMasters Jazzberry Jam
(Burgundy, Cabaret White Calibrachoa, Firehouse Purple Verbena)

MixMasters Heartland
(White, Early Springs Blue Lobelia, Firehouse Red Verbena)

White
Yellow
Rose Vein
Pink
Burgundy
Coral
Red
Burgundy Star
Blue
Truly dependable, truly uniform.

Sell in Spring combos with a basket habit. Cha-Cha Calibrachoa is a perfect match-up.

SIMILAR FLOWER SIZES

ALL COLORS FLOWER WITHIN ONE WEEK OF EACH OTHER

SHARE THE SAME UNIFORM HABIT

WELL-BRANCHED TO ENSURE GROWER SUCCESS

PETUNIA
**PETUNIA**
*Petunia x hybrida*

**SureShot™**

**Height:** 8 to 10 in. (20 to 25 cm)

**Spread:** 16 to 22 in. (41 to 56 cm)

This series has been bred to rigorous standards for a 7-day flowering time and matching habit, so all colors can be shipped to retail at the same time.

Varieties mix well together to create a range of color combinations.

Ideal for all pot sizes and hanging baskets.

**NEW Hot Pink:** A core color addition to the series, it has a nice, saturated hot pink color, great branching and lots of blooms.

**NEW Pink Vein:** This new novelty pattern completes the color and pattern selection for the series. Amazing in mono-color baskets and containers, or mix it with other sun-loving varieties.

**NEW Raspberry Cheesecake:** A novel new color addition to the series.

**NEW Red:** A core color addition to the series.

**NEW Blue**

```
White
Magenta
Dark Red
Blue Vein
Dark Blue
Blueberries & Cream
```

**Rebecca Tashiro**
Breeder

“The SureShot Series was developed with growers in mind. I chose varieties that had a well-branching, mounding habit to fill containers quickly and make packing and shipping of finished product easier. All of the varieties finish within 7 days of each other to help growers hit their target finish date. I made sure that solid colors were the foundation of the series, with novelty colors and patterns continuously added to the series for excitement. Even better, the traits that make this series work for growers transfers on to the consumers for excellent season-long performance. The SureShot Series really is a sure shot!”

**Ballseed.com/webtrack**

[Image of flowers and text]
“We’ve trialed ColorRush in the ground in various climates. Time and time again, it lives up to its name by providing massive mounds of vibrant color. For example, Merlot Star has a stable star pattern that lasts all season. See the chart on the right for the flowering weeks you can expect by region.”

ColorRush continues to be a standout among ground petunias with its trial garden performance proved best in market and as a 2019 University of Georgia Plants of Distinction award winner.

Best Practices

**West Region**

Finish in an outdoor cold frame, where it can receive natural night temperatures as low as 32°F (0°C), but have some form of greenhouse roof protection to avoid frost exposure. PGRs in our trials were not needed when average daily temperature was below 54°F (12°C) in outdoor tunnels.

**Midwest, Canada and Northeast Regions**

Based on our Midwest trials, we recommend a Bonzi spray at 5 ppm 10 days after stick and a Bonzi drench at 5 ppm 3 to 4 weeks after transplant, if needed. This keeps plants from growing together on the bench.

**South or Southeast Region**

Finish in an outdoor cold frame, where it can receive natural night temperatures as low as 32°F (0°C), but should not be exposed to frost during the production cycle. Since many locations in the South or Southeast will not be able to provide an average daily temperature under 54°F (12°C), we recommend a Bonzi drench between 1 to 3 ppm to control finished growth.
PETUNIA

**Petunia x hybrida**

**ColorRush™**

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

**Spread:** 24 to 36 in. (61 to 91 cm)

Notable for big vigor and excellent garden performance.

Our most vigorous line is ideal for 12-in. (30-cm) and larger containers and baskets, as well as landscapes.

The series will finish 10 to 12 weeks from stick, depending on region.

Masses of blooms hold up in the heat and rain.

Includes a range of bright, eye-catching colors and novelties.

These varieties have nicely matched habits, making production planning easier.

A 2019 University of Georgia Plants of Distinction award winner.


<table>
<thead>
<tr>
<th>WEEK IN FLOWER</th>
<th>VARIETY</th>
<th>FLORIDA</th>
<th>ARROYO GRANDE</th>
<th>WEST CHICAGO</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Blue</td>
<td>5</td>
<td>7</td>
<td>14</td>
</tr>
<tr>
<td><strong>NEW</strong></td>
<td>Blueberries &amp; Cream</td>
<td>3</td>
<td>6</td>
<td>13</td>
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<tr>
<td></td>
<td>Merlot Star</td>
<td>3</td>
<td>6</td>
<td>13</td>
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<tr>
<td></td>
<td>Pink</td>
<td>5</td>
<td>6</td>
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<tr>
<td></td>
<td>Pink Star</td>
<td>3</td>
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<tr>
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<td>Pink Vein</td>
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<tr>
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<td>Purple</td>
<td>5</td>
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<td></td>
<td>Red</td>
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<td>Watermelon Red</td>
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</tr>
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<td>White</td>
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<td>4</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Yellow</td>
<td>3</td>
<td>6</td>
<td>13</td>
</tr>
</tbody>
</table>

NEW Blueberries & Cream

**Petunia x hybrida**

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DOUBLE PETUNIA

Petunia x hybrida

Vogue™

Height: 8 to 10 in. (20 to 25 cm)
Spread: 14 to 24 in. (36 to 61 cm)

Earlier to flower with a superior mounded, compact habit.
Better branching than other double petunias on the market.
More flowers in the center creates more flower power in containers and hanging baskets!

White
Lemon Berry
Pink
Lavender Vein
Red
Blue
Jewel Collection
A treasure trove of double petunias

PETUNIA
Petunia hybrida

Jewel Collection
Hidden gems
The Jewel Collection features a group of bold double petunia blooms that have light edges in picotee patterns. Worth every penny!

NEW Frosted Sapphire
Height: 6 to 8 in. (15 to 20 cm)
Spread: 16 to 22 in. (41 to 56 cm)
Beautiful blue and white picotee pattern makes this double petunia a great component for hanging baskets, containers and mixes.

Midnight Gold
Height: 8 to 10 in. (20 to 25 cm)
Spread: 20 to 26 in. (51 to 66 cm)
Unique, first-of-its-kind novelty color! Exceptional branching with profuse flowering. Features huge double blooms that are great for hanging baskets.

Pink Diamond
Height: 8 to 10 in. (20 to 25 cm)
Spread: 20 to 26 in. (51 to 66 cm)
Pink Diamond features huge double blooms that are great for hanging baskets. New blooms cover old flowers for a fresh-looking plant all season!
Slingshot™ Collection
The coolest novelty blooms for baskets and containers

NEW Burgundy Bliss
PETUNIA Hybrida

Slingshot Collection
Improve your aim with Slingshot™
Take your best shot with the Slingshot Collection of the coolest novelty petunias gathered in one convenient place.

NEW Burgundy Bliss
Height: 8 to 10 in. (20 to 25 cm)
Spread: 16 to 22 in. (41 to 56 cm)
Features a striking burgundy pattern.

Black Magic
Height: 10 to 16 in. (25 to 41 cm)
Spread: 16 to 20 in. (41 to 51 cm)
The blackest black petunia on the market! Features stable, non-stripping blooms with excellent flower form and a controlled, mounded, trailing habit.

NEW Lemonberry
Height: 8 to 10 in. (20 to 25 cm)
Spread: 16 to 22 in. (41 to 56 cm)
Offers an eye-catching burgundy and yellow pattern.

Phantom
Height: 8 to 12 in. (20 to 30 cm)
Spread: 8 to 12 in. (20 to 30 cm)
A must-have for any petunia program – alone or in combos. Phantom shows off a black base color with a distinctive yellow star pattern. It’s the perfect companion to Black Magic at retail and in the garden.
TRAILING PETUNIA

**Petunia x hybrida**

**Rhythm And Blues**

*Height*: 8 to 12 in. (20 to 30 cm)

*Spread*: 12 to 16 in. (30 to 41 cm)

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.

**Cascadias™ Indian Summer**

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

*Spread*: 12 to 18 in. (30 to 46 cm)

Striking blooms open orange and mature to salmon pink – sure to drive impulse sales. Well-branched habit is ideal for 12-in. (30-cm) hanging baskets and patio pots. Unique color option pairs with excellent garden performance.

**‘Bluerific’ & ‘Pinkceptional’**

*Height*: 8 to 10 in. (20 to 25 cm)

*Spread*: 16 to 22 in. (41 to 56 cm)

Medium-vigor varieties are well-suited for gallon and larger production. The colors also make great additions to mixed containers, and are best for gallon and 12-in. (30-cm) hanging baskets. Early flowering.
**PETCHOA**

**Petunia x Calibrachoa hybrid**

**SuperCal® Premium**

**Height:** 14 to 24 in. (36 to 61 cm)

**Spread:** 14 to 26 in. (36 to 66 cm)

Offers the same excellent performance as SuperCal, with larger flowers, an improved habit and a more mounded, refined growth.

**NEW Red Maple**

Large, scarlet-red flowers are vibrant and provide “wow” factor at retail.

Mixes have been trialed and proven to grow well together. The components are packaged and shipped together, so you can stick them in the same container to create these sensational color combos.

**Autumn Spice Mix:** Contains Cinnamon and French Vanilla.

**Citrus Mix:** Contains Pearl White, Sunset Orange and Yellow Sun.

SUPERCAL is bred by Sakata.
SUPERCAL is a registered trademark of Sakata.
SuperCal®

**SuperCal®**

*Petunia x Calibrachoa hybrid*

**Height:** 14 to 28 in. (36 to 71 cm)
**Spread:** 14 to 32 in. (36 to 81 cm)

The best characteristics of petunias and calibrachoas, in one exceptional collection.

Unique, vibrant colors, large blooms and high pH tolerance.

Early-flowering varieties can be grown cool for cost-efficient production.

Excellent heat tolerance and weather recovery.

SuperCal offers 3-color mixes that have been trialed and proven to grow well together. The components are packaged and shipped together, so you can stick them in the same container to create these sensational color combos.

**NEW Patriot Mix:** Contains Blue, Royal Red and SuperCal Premium Pearl White.

**Garden Magic Mix:** Contains Blue, Light Yellow and Royal Red.

**Gumball Mix:** Contains Light Yellow, Rose and Royal Red petchoa.

**Summer Sensation Mix:** Contains Blue, Light Yellow and Pink.

SUPERCAL is bred by Sakata. SUPERCAL is a registered trademark of Sakata.
PLECTRANTHUS

Plectranthus coleoides

‘Nico’
Height: 8 to 10 in. (20 to 25 cm)
Spread: 12 to 36 in. (30 to 91 cm)
Vigorous accent plant is known for its dark green foliage and semi-prostrate habit.

‘Nicolleta’
Height: 8 to 10 in. (20 to 25 cm)
Spread: 12 to 36 in. (30 to 91 cm)
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 46 cm)
Trailing and vigorous, this white-edged foliage plant is useful in combinations and baskets.

PLECTRANTHUS

Plectranthus x hybrida

Mona Lavender
Height: 12 to 16 in. (30 to 41 cm)
Spread: 24 to 36 in. (61 to 91 cm)
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. Requires short days to flower.

PURSLANE

Portulaca oleracea

RioGrande™
Height: 3 to 4 in. (8 to 10 cm)
Spread: 10 to 12 in. (25 to 30 cm)
Well-matched in vigor, controlled habit and good branching. Exceptionally large flowers in a vibrant range of core colors – beautiful in baskets. Rugged performer thrives in heat and keeps flowering all Summer.

STROBILANTHES

Strobilanthes dyerianus

‘Persian Shield’
Height: 18 to 24 in. (46 to 61 cm)
Spread: 24 in. (61 cm)
Very vigorous with excellent heat tolerance. Works well in mixed containers, baskets and window boxes.
NEW FunFusions Heatwave in Havana
(Lucky Pot Of Gold Lantana, Blue Brilliance Scaevola, RioGrande Orange Purslane)

‘Blue Fan’ Scaevola
**Height:** 12 to 14 in. (30 to 36 cm)
**Spread:** 8 to 10 in. (20 to 25 cm)
Trailing variety is well-suited to baskets, containers and landscapes.

**Bondi™**
**Height:** 6 to 10 in. (15 to 25 cm)
**Spread:** 12 to 18 in. (30 to 46 cm)
Compact series is easy to grow in small pots for high-density production. Upright habit and good branching keep Bondi looking neat and tidy at retail. Ideal for Summer heat programs – nice in hanging baskets and mixed containers.

‘Blue Brilliance’ Scaevola
**Height:** 12 to 20 in. (30 to 51 cm)
**Spread:** 24 to 28 in. (61 to 71 cm)
‘Blue Brilliance’ is vigorous, but is still tidy in the garden. This scaevola offers a dark blue and good branching.

White Sparkle Scaevola
**Height:** 12 to 20 in. (30 to 51 cm)
**Spread:** 24 to 28 in. (61 to 71 cm)
Starts flowering white, then displays light blue stripes later in the season. Medium, controlled vigor means plants won’t fall apart in final stages of production. Ideal for 1-gallon pots and hanging baskets.

**Scaevola aemula**

**Scaevola hybrid**

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**Mysty & Mystic Spires**

Perfect performance in small pots and combos

---

**Mysty**

**Height:** 12 to 18 in. (30 to 46 cm)
**Spread:** 12 to 18 in. (30 to 46 cm)

This compact salvia is about 25 to 35% less vigorous than Mystic Spires, making it perfect for high-density production and mixed containers. The dark green-leafed plants are naturally compact and well-branched without the use of growth regulators. The sustainability message for this heat-hardy plant continues, as it is very free-flowering from late Spring until frost. The true-blue flowers attract bees, butterflies and hummingbirds all season long. Mysty is ideal for garden borders and 10 to 12-in. (25 to 30-cm) containers.

---

**Mystic Spires**

**Height:** 18 to 24 in. (46 to 61 cm)
**Spread:** 12 to 18 in. (30 to 46 cm)

This impressive salvia offers excellent Summer garden performance, with longer flower hold for a brighter blue flower color in the garden. A premium variety that can command a higher price point. 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.

---

**Gail Shafer**

Breeder

“Mysty is a compact salvia that checks all the boxes for growers and consumers. It is about 25 to 35% less vigorous than Mystic Spires, making it perfect for high-density production and mixed containers. The dark green-leafed plants are naturally compact and well-branched without the use of growth regulators. The sustainability message for this heat-hardy plant continues, as it is very free-flowering from late Spring until frost. The true-blue flowers attract bees, butterflies and hummingbirds all season long. Mysty is ideal for garden borders and 10 to 12-in. (25 to 30-cm) containers.”
NEW Plum Crazy

Salvia guaranitica

NEW Plum Crazy

Height: 36 to 48 in. (91 to 122 cm)
Spread: 36 to 48 in. (91 to 122 cm)

Displays nice burgundy flowers. Great pollinator plant. Attracts butterflies and hummingbirds.

‘Black & Bloom’

Height: 24 to 36 in. (61 to 91 cm)
Spread: 12 to 18 in. (30 to 46 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.

‘Purple & Bloom’

Height: 40 to 48 in. (102 to 122 cm)
Spread: 36 to 48 in. (91 to 122 cm)

This salvia is 25% more compact than the leading competitor, and it is easy to produce, requiring less PGRs. It offers the same flower power and performance as ‘Black & Bloom’. Looks great in the landscape all Summer long!

‘White Flame’

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

This salvia is covered in white blooms with excellent heat performance. It is perfect for landscapes and mixed containers. ‘White Flame’ is one of the most heat-tolerant plants available, with vigorous in-ground performance. Matches Mystic Spires in height.

NEW Plum Crazy

‘Black & Blue’

SALVIA

Salvia longispicata x farinacea

Blue Chill

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

Slightly taller than Mystic Spires, with great garden performance, Blue Chill offers a light blue hue in the garden. A premium variety that can command a higher price point. Well-branched, heat-hardy plants are free-flowering from Spring through Summer. Perfect for landscapes and mixed containers.

‘Roman Red’

SALVIA

Salvia splendens x darcyi

‘Black & Blue’

Height: 28 to 34 in. (71 to 86 cm)
Spread: 28 to 36 in. (71 to 91 cm)

Has a more compact habit compared to the leading competitor’s red, along with medium green foliage. This is the only vibrant red, interspecific salvia on the market! More similar in habit and performance to ‘Black & Bloom’, with a semi-mounded habit. Offers exceptional landscape performance when compared to Salvia splendens.
TECOMA

Tecoma stans

Ball Ingenuity

Powered by Ball FloraPlant®

NEW Kalama™

Height: 18 to 24 in. (46 to 61 cm)
Spread: 16 to 18 in. (41 to 46 cm)

Compact tropical color that loves Summer heat! Perfect for smaller containers and spaces.

A Ball Ingenuity Powered by Ball FloraPlant series – URCs from Las Limas!

NEW Blood Orange: Unique orange petals accented with a dark orange center ring.

NEW Papaya: Rich, refreshing orange tones add warmth to any Summer patio.

NEW Pomegranate: Red-orange blossoms with peek-a-boo golden orange centers create a fantastic two-tone display.

THUNBERGIA

Thunbergia alata

Sunny™

Height: 60 to 96 in. (152 to 244 cm)
Spread: 16 to 24 in. (41 to 61 cm)

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.

NEW Rose Sensation: Brings a nice pink color addition to the series and the market.

TORENIA

Torenia hybrida

Summer Wave®

Height: 8 to 10 in. (20 to 25 cm)
Spread: 20 to 36 in. (51 to 91 cm)

Flowers all season, yielding a much higher bloom count than others. With a lush, trailing habit and vigorous growth, they’re perfect for shady beds or hanging baskets. Self-cleaning and well-branching, they require very little maintenance.

Summer Wave is a registered trademark of SUNTORY FLOWERS LIMITED.
PERILLA  
*Perilla frutescens*

**Magilla® Purple**
- **Height:** 24 to 36 in. (61 to 91 cm)
- **Spread:** 12 to 18 in. (30 to 46 cm)

Striking, multicolor accent plant is extremely well-branched and vigorous, so fewer inputs are needed. Fills in mixed containers fast, and delivers great heat tolerance and Summer performance.

VERBENA  
*Verbena peruviana*

**NEW Burgundy Wink**
- **Improved & Violet Wink**
- **Height:** 8 to 10 in. (20 to 25 cm)
- **Spread:** 12 to 18 in. (30 to 46 cm)

Excellent powdery mildew resistance – needs fewer chemical applications. Fast off the bench and onto retail shelves. Performs beautifully in baskets, mono and mixed containers.

**NEW Burgundy Improved:** Offers better branching and a more controlled habit, which makes it easier for use in mixed containers.
VERBENA

Cadet Upright™

Stays in line with an upright habit
**Cadet Upright™**

**Height:** 8 to 10 in. (20 to 25 cm)

**Spread:** 12 to 14 in. (30 to 36 cm)

Flowers one week earlier than other upright verbena on the market.

Compared to the competition, this verbena has the most uniform habit across the series.

Features the same heat performance as EnduraScape™ in a compact patio-pot habit.

All colors can be treated the same culturally.

Proven superior powdery mildew resistance when compared to the competition.

Ideal for quart and high-density, pot-tight production, as they won’t tangle on the bench.

**NEW Orchid Pink:** A nice, bright color addition to the series.
Firehouse™
Stands tough when the heat rises

NEW FunFusions Trailblazing in Toronto
(Burgundy, Bee's Knees Petunia, TrailBlazer Road Trip Coleus)
**VERBENA**
**Verbena peruviana**

**Firehouse™**
- **Height:** 8 to 10 in. (20 to 25 cm)
- **Spread:** 18 to 22 in. (46 to 56 cm)

The perfect medium-mounded basket and mixed container verbena. Offers a full range of colors. Same superior garden performance in the heat as EnduraScape™. Less cycling means more color in the garden for Summer. Excellent powdery mildew resistance.

**NEW Peppermint:** Novelty variety with bright red and white colors is perfect for hanging baskets or containers, and it mixes well with other varieties.

**Best Practices**

**Midwest, Canada and Northeast Regions**
An application of Florel at 300 ppm 2 weeks after transplant produces tighter, more toned gallons. A Bonzi 1 ppm drench can be helpful 3 to 4 weeks prior to shipping product, especially if greenhouse temperatures increase rapidly.

**West Region**
To finish Firehouse, use B-Nine 2,500/Cycocel 750 ppm spray applications 2 weeks after transplant.

Firehouse Light Pink was treated with B-Nine/Cycocel 750 ppm spray in California trials.

**South and Southeast Regions**
Firehouse starts with good liner productions, and it is recommended to tone liners with B-Nine 2,500 ppm or a very light Bonzi spray of 0.5-1 ppm. An application of Florel at 300 ppm 2 weeks after transplant produces tighter, more toned gallons.
EnduraScape™
Color that won’t quit

Blue and White
VERBENA

**EnduraScape™**

*Verbena peruviana*

**Height:** 8 to 12 in. (20 to 30 cm)

**Spread:** 18 to 24 in. (46 to 61 cm)

The first verbena that’s hardy through the hottest days of Summer, but can take the cold down to the low teens, and still rebloom in Spring, bringing lasting color to landscapes all season long.

EnduraScape revs up the color with 10 high-octane varieties.

Superior branching: finished product has a full habit with a high bloom count in gallon containers.

Excellent powdery mildew resistance.

**NEW Purple Fizz:** An exciting bicolor addition to the series with large flower umbels.

**MixMasters Big Flirt**

(Pink Bicolor, ColorRush Blue Petunia, SuperCal Pink Petchoa)
# Ball Seed Sales Representatives

## Pacific

<table>
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<th>Email</th>
<th>Email Address</th>
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JIM KENNEDY
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ANDREW BAKER
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RYAN BRANDT
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NATHAN D. KING
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Regional Business Manager
PETER SCHERZER
Regional Business Manager
RYAN WALKER
Regional Business Manager

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MATT HIGGS
Regional Business Manager
AL NEWSOM
Regional Business Manager
PETER SCHERZER
Regional Business Manager
RYAN WALKER
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BALL SEED SALES REPRESENTATIVES
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<th>Region</th>
</tr>
</thead>
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# Ball ColorLink® Sales Team

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</thead>
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# Ball ColorLink® Service Team

<table>
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<th>Role</th>
<th>Contact Details</th>
</tr>
</thead>
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<td>HEATHER PAGLIALONG-IVANOVIĆ</td>
<td>Business Development Specialist</td>
<td>302 548-6373, <a href="mailto:ddowling@ballhort.com">ddowling@ballhort.com</a>, All regions</td>
</tr>
<tr>
<td>ALICIA ZAPATA</td>
<td>Customer Relations Specialist</td>
<td>973 270-6114, <a href="mailto:shoutsma@ballhort.com">shoutsma@ballhort.com</a>, Southeast, Southwest</td>
</tr>
</tbody>
</table>
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

**NOTE:** Minimum order of 2,000 quantity for GE and SG cuttings

### 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

### AUTOSTIX™ STRIP CUTTINGS
- Same high-quality unrooted cuttings from Las Limas in a form for automated transplanting
- Comes in a biodegradable strip

### MIXMASTERS™ MULTILINERS
- All components sourced from Las Limas
- Three single-stick cuttings grow together into one healthy multiliner to produce perfectly balanced combos
- Offers 100% complete “recipes” with nothing missing
- Produces more predictable, programmable mixes

### 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 7. 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) pots 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 7

### 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 7
## Propagation Guide

<table>
<thead>
<tr>
<th>CROP</th>
<th>TRAY SIZE(S) (CELLS/TRAY)</th>
<th>ROOTING HORMONE</th>
<th>AVERAGE DAYS WITH MIST</th>
<th>PINCH</th>
<th>AVERAGE PROPAGATION TIME (WEEKS)</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALTERNANTHERA</td>
<td>50, 72, 84, 104, 209</td>
<td>No</td>
<td>6-8</td>
<td>Yes</td>
<td>3-4</td>
<td>Stick cuttings immediately upon arrival to avoid breakdown.</td>
</tr>
<tr>
<td>ANGELONIA</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>7-9</td>
<td>Yes</td>
<td>3-4</td>
<td>Avoid stretch. Pinch 18-21 days after sticking.</td>
</tr>
<tr>
<td>BACOPA</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>6-8</td>
<td>Yes</td>
<td>3</td>
<td>Stick 1 cutting per cell.</td>
</tr>
<tr>
<td>BIDENS</td>
<td>32, 50, 72, 84, 105</td>
<td>No</td>
<td>6-9</td>
<td>Yes</td>
<td>3-4</td>
<td>Reduce and eliminate mist as soon as possible.</td>
</tr>
<tr>
<td>BRACHYSCOME</td>
<td>32, 50, 72, 84, 105</td>
<td>Yes</td>
<td>6-8</td>
<td>Yes</td>
<td>4-5</td>
<td>Avoid burying growing point. Reduce mist as soon as possible.</td>
</tr>
<tr>
<td>BRACTEANTHA</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>6-9</td>
<td>No</td>
<td>3</td>
<td>Reduce mist as soon as possible.</td>
</tr>
<tr>
<td>CALIBRACHOA</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>6-8</td>
<td>Yes</td>
<td>3-4</td>
<td>Avoid wide fluctuations in soil moisture. Apply preventative fungicide drench at 18-21 days after sticking.</td>
</tr>
<tr>
<td>CELOSIA</td>
<td>78</td>
<td>Yes</td>
<td>25-28</td>
<td>Yes</td>
<td>4</td>
<td>Must pinch 14-16 days after stick. It would be typical to have 6 to 8 leaves remaining below the pinch.</td>
</tr>
<tr>
<td>CLEOME</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>COLEUS</td>
<td></td>
<td>No</td>
<td>4-6</td>
<td></td>
<td></td>
<td>Compact variety has no need for PGRs before transplant.</td>
</tr>
<tr>
<td>CUPHEA</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>6-8</td>
<td>Yes</td>
<td>3-4</td>
<td>Requires all flower buds to be pinched out of the liner in order to create better branching in finished product.</td>
</tr>
<tr>
<td>DIASCIA</td>
<td></td>
<td>No</td>
<td>6-9</td>
<td>Yes</td>
<td>3-4</td>
<td>Stick 1 cutting per cell.</td>
</tr>
<tr>
<td>DIPLASDENIA (BUSH)</td>
<td>72-102</td>
<td>Yes</td>
<td>12-14</td>
<td>Yes</td>
<td>4-5</td>
<td>1 pinch in propagation, 1 in finish stage</td>
</tr>
<tr>
<td>DIPLASDENIA (VINING)</td>
<td>72-102</td>
<td>Yes</td>
<td>12-16</td>
<td>Yes</td>
<td>4-5</td>
<td>1 pinch in propagation, 1 in finish stage</td>
</tr>
<tr>
<td>EUPHORBIA</td>
<td>50, 72, 84, 105</td>
<td>Optional</td>
<td>7-10</td>
<td>Yes</td>
<td>3-4</td>
<td>Ethylene sensitive – stick as soon as possible. Flower buds are common in propagation. Reduce mist as soon as possible.</td>
</tr>
<tr>
<td>EVOLVULUS</td>
<td>50, 72, 84, 105</td>
<td>Optional</td>
<td>6-10</td>
<td>Yes</td>
<td>3-4</td>
<td>Apply preventative fungicide spray after sticking. Reduce mist as soon as possible.</td>
</tr>
<tr>
<td>EXACUM</td>
<td>72, 102</td>
<td>No</td>
<td>5-6</td>
<td>none</td>
<td>4</td>
<td>Use of a fungicide at stick is suggested within 24 hours. Lighting for 12-hour days is suggested in propagation.</td>
</tr>
<tr>
<td>GERANIUM (IVY)</td>
<td></td>
<td>See Comments</td>
<td>Optional</td>
<td>9-13</td>
<td>4-5</td>
<td>Stick immediately upon arrival. Geraniums are best rooted in a media in strip form to allow for maximum airflow 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.</td>
</tr>
<tr>
<td>GERANIUM (ZONAL)</td>
<td></td>
<td>See Comments</td>
<td>Optional</td>
<td>9-12</td>
<td>3-4</td>
<td>Stick immediately upon arrival. Geraniums are best rooted in media in strip form to allow for maximum airflow 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.</td>
</tr>
<tr>
<td>GOMPHRENA</td>
<td>78</td>
<td>Yes</td>
<td>14-21</td>
<td>Yes</td>
<td>3-4</td>
<td>Bottom heat speeds up root development.</td>
</tr>
<tr>
<td>HELICHRYSUM</td>
<td>50, 72, 84, 105</td>
<td>Optional</td>
<td>7-10</td>
<td>Optional</td>
<td>3-4</td>
<td>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.</td>
</tr>
<tr>
<td>HELIOTROPE</td>
<td>50, 72, 84, 105</td>
<td>Optional</td>
<td>6-9</td>
<td>No</td>
<td>3-4</td>
<td>Stick immediately upon arrival. Apply preventative fungicide spray after sticking. Reduce mist as soon as possible.</td>
</tr>
<tr>
<td>IMPATIENS</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>5-8</td>
<td>No</td>
<td>3</td>
<td>Avoid saturated media. Reduce mist as soon as possible.</td>
</tr>
<tr>
<td>IMPATIENS (DOUBLE)</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>5-8</td>
<td>No</td>
<td>2-3</td>
<td>Reduce mist as soon as possible to reduce stretch. Transplant on time.</td>
</tr>
<tr>
<td>IMPATIENS (EXOTIC)</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>5-8</td>
<td>No</td>
<td>3</td>
<td>Avoid saturated media. Reduce mist as soon as possible. To reduce stretch, transplant on time.</td>
</tr>
<tr>
<td>IMPATIENS (NEW GUINEA)</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>7-8</td>
<td>No</td>
<td>3-4</td>
<td>Apply preventative fungicide spray after sticking. Reduce mist as soon as possible. Scout regularly for Botrytis.</td>
</tr>
<tr>
<td>IPOMOEAE</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>3-4</td>
<td>Optional</td>
<td>3-4</td>
<td>Move rooted cuttings off mist quickly to avoid stretch. Ipomoea URC do not like to be stored, so stick immediately. Cooling cuttings can actually do damage, so it is recommended that, if you do store cuttings, do not put them in a cooler, and maintain temperatures at 55-60°F (13-16°C).</td>
</tr>
<tr>
<td>CROP</td>
<td>TRAY SIZE(S) (CELLS/TRAY)</td>
<td>ROOTING HORMONE</td>
<td>AVERAGE DAYS WITH MIST</td>
<td>PINCH</td>
<td>AVERAGE PROPAGATION TIME (WEEKS)</td>
<td>COMMENTS</td>
</tr>
<tr>
<td>----------------------</td>
<td>---------------------------</td>
<td>-----------------</td>
<td>------------------------</td>
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<td>---------------------------------</td>
<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>IRESINE</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>4-7</td>
<td>No</td>
<td>3-4</td>
<td>Apply Bonzi spray 3-5 ppm on Blazin' Rose between Days 7-11 to control early stretch. Transplant on time.</td>
</tr>
<tr>
<td>LAMIASTRUM</td>
<td>32, 50, 72, 84, 105</td>
<td>No</td>
<td>6-9</td>
<td>Yes</td>
<td>3-4*</td>
<td>Reduce mist as soon as possible to reduce stretch. Transplant on time.</td>
</tr>
<tr>
<td>LAMIUM</td>
<td>32, 50, 72, 84, 105</td>
<td>No</td>
<td>6-9</td>
<td>Yes</td>
<td>3-4*</td>
<td>Reduce mist as soon as possible to reduce stretch. Transplant on time.</td>
</tr>
<tr>
<td>LANTANA</td>
<td>50, 72, 84, 105</td>
<td>Optional</td>
<td>7-11</td>
<td>Yes</td>
<td>4-5</td>
<td>Stick immediately upon arrival. Apply preventive fungicide spray after sticking.</td>
</tr>
<tr>
<td>LOBELIA</td>
<td>50, 72, 84, 105</td>
<td>Optional</td>
<td>6-9</td>
<td>Recommended</td>
<td>4-5</td>
<td>Hormone will improve rooting. Pinch 18-21 days after sticking to improve branching.</td>
</tr>
<tr>
<td>LOBULARIA</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>6-9</td>
<td>Yes</td>
<td>3-4</td>
<td>Apply preventative fungicide spray after sticking. Reduce mist as soon as possible.</td>
</tr>
<tr>
<td>LYSIMACHIA</td>
<td>32, 50, 72, 84, 105</td>
<td>No</td>
<td>6-9</td>
<td>Yes</td>
<td>3-4</td>
<td>Reduce mist as soon as possible to reduce stretch. Transplant on time.</td>
</tr>
<tr>
<td>MANDEVILLA (BUSH)</td>
<td>72-102</td>
<td>Yes</td>
<td>12-18</td>
<td>Yes</td>
<td>4-5</td>
<td>1 pinch in propagation, 1 in finish stage</td>
</tr>
<tr>
<td>MANDEVILLA (VINING)</td>
<td>72-102</td>
<td>Yes</td>
<td>12-18</td>
<td>Yes</td>
<td>4-5</td>
<td>1 pinch in propagation, 1 in finish stage</td>
</tr>
<tr>
<td>MECARDONIA</td>
<td>105, 207</td>
<td>Yes</td>
<td>6-8</td>
<td>Yes</td>
<td>4</td>
<td>Rooting hormone is recommended, but not required.</td>
</tr>
<tr>
<td>NEMESIA</td>
<td>72, 84, 105, 128</td>
<td>No</td>
<td>6-9</td>
<td>Recommended</td>
<td>3-4</td>
<td>Better with 2 cuttings per cell. Liner can be pinched at 3 weeks or when well rooted.</td>
</tr>
<tr>
<td>OSTEOSPERMUM</td>
<td>32, 50, 72, 84, 105</td>
<td>Yes</td>
<td>9-12</td>
<td>Optional</td>
<td>3-4</td>
<td>Maintain uniformity in mist and soil temperature. Do not allow cuttings to wilt. Pinch to increase branching.</td>
</tr>
<tr>
<td>PERILLA</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>4-7</td>
<td>No</td>
<td>2-3</td>
<td>Avoid stretch. Reduce mist as soon as possible to reduce stretch. Transplant on time.</td>
</tr>
<tr>
<td>PETCHOA</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>6-8</td>
<td>Yes</td>
<td>3-4</td>
<td>Avoid wide fluctuations in soil moisture. Apply preventive fungicide drench at 18-21 days after sticking.</td>
</tr>
<tr>
<td>PETUNIA</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>6-9</td>
<td>No</td>
<td>3-4</td>
<td>Avoid stretch by moving crop to cooler air temperature in second and third weeks of propagation. Transplant on time.</td>
</tr>
<tr>
<td>PETUNIA (DOUBLE)</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>6-9</td>
<td>No</td>
<td>3-4</td>
<td>Avoid stretch by moving crop to cooler air temperature in second and third weeks of propagation. Transplant on time.</td>
</tr>
<tr>
<td>PETUNIA (TRAILING)</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>6-9</td>
<td>No</td>
<td>3-4</td>
<td>Avoid stretch by moving crop to cooler air temperature in second and third weeks of propagation. Transplant on time.</td>
</tr>
<tr>
<td>PLECTRANTHUS</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>6-10</td>
<td>Optional</td>
<td>3-4</td>
<td>Apply preventative fungicide spray after sticking.</td>
</tr>
<tr>
<td>PURSLANE</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>4-7</td>
<td>Yes</td>
<td>2-3</td>
<td>Pinch as needed to remove flower buds and improve habit.</td>
</tr>
<tr>
<td>SALVIA</td>
<td>32, 50, 72, 84, 105</td>
<td>No</td>
<td>5-8</td>
<td>Required</td>
<td>3-6*</td>
<td>Apply B-Nine (2,500 ppm) spray in propagation once between Day 9 and 11. Reapply after transplant if growing under long days.</td>
</tr>
<tr>
<td>SCAEVOLA</td>
<td>50, 72, 84, 105</td>
<td>Optional</td>
<td>7-10</td>
<td>Yes</td>
<td>3-4</td>
<td>Reduce mist as soon as possible. Maintain warm soil temperature to optimize rooting.</td>
</tr>
<tr>
<td>STROBILANTHES</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>7-12</td>
<td>Optional</td>
<td>4-5</td>
<td>Pinch 18-21 days after sticking to improve branching. Allow root system to develop sufficiently before transplanting.</td>
</tr>
<tr>
<td>TECOMA</td>
<td>72, 84, 105</td>
<td>Yes</td>
<td>Optional</td>
<td></td>
<td>6-8</td>
<td>Using a 14-4-14 or 15-5-15 fertilizer will help reduce stretch at the liner phase. Preventative fungicide applications are recommended.</td>
</tr>
<tr>
<td>THUNBERGIA</td>
<td>50, 72, 84, 105</td>
<td>Yes</td>
<td>7-12</td>
<td>Yes</td>
<td>4-5</td>
<td>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.</td>
</tr>
<tr>
<td>TORENIA</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>6-9</td>
<td>Yes</td>
<td>3-4</td>
<td>Reduce mist as soon as possible.</td>
</tr>
<tr>
<td>VERBENA</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>6-9</td>
<td>Yes</td>
<td>3-4</td>
<td>Reduce and then eliminate mist as soon as possible. Apply preventative fungicide spray after sticking.</td>
</tr>
</tbody>
</table>

*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 Fall.
### Annual Culture Guide

<table>
<thead>
<tr>
<th>CROP</th>
<th>SERIES/VARIETY</th>
<th>SOIL PH</th>
<th>LIGHT LEVELS (FC)</th>
<th>TEMPERATURE DAY</th>
<th>TEMPERATURE NIGHT</th>
<th>FERTILIZATION (PPM N)</th>
<th>NO. OF PINCES</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALTERNANTHERA</td>
<td>Red Threads</td>
<td>5.8-6.2</td>
<td>4,000-8,000</td>
<td>74-85°F (23-29°C)</td>
<td>62-70°F (17-21°C)</td>
<td>157-225</td>
<td>1</td>
</tr>
<tr>
<td>ANGELONIA</td>
<td>AngelDance™, Angeliss™, Archangel™</td>
<td>5.8-6.2</td>
<td>6,000-10,000</td>
<td>74-85°F (23-29°C)</td>
<td>62-70°F (17-21°C)</td>
<td>175-225</td>
<td>0-2</td>
</tr>
<tr>
<td>ANGELONIA</td>
<td>AngelMist® Spreading</td>
<td>5.8-6.2</td>
<td>6,000-10,000</td>
<td>74-85°F (23-29°C)</td>
<td>62-70°F (17-21°C)</td>
<td>175-225</td>
<td>0-2</td>
</tr>
<tr>
<td>BACOPA</td>
<td>MegaCopa™, Versa™</td>
<td>5.4-5.8</td>
<td>4,000-8,000</td>
<td>65-76°F (18-24°C)</td>
<td>56-61°F (13-16°C)</td>
<td>175-225</td>
<td>1-2</td>
</tr>
<tr>
<td>BIDENS</td>
<td>NEW Bee Alive Double Orange, NEW Bee Alive Improved</td>
<td>5.8-6.2</td>
<td>5,000-9,000</td>
<td>59-76°F (15-24°C)</td>
<td>53-61°F (12-16°C)</td>
<td>175-225</td>
<td>1-3</td>
</tr>
<tr>
<td>BIDENS</td>
<td>Bee Bold, Bee Happy™</td>
<td>5.8-6.2</td>
<td>5,000-9,000</td>
<td>59-76°F (15-24°C)</td>
<td>53-61°F (12-16°C)</td>
<td>175-225</td>
<td>1-2</td>
</tr>
<tr>
<td>BIDENS</td>
<td>Sun Drop, Sun Drop Compact, Sun Drop Compact Double Yellow, Sun Drop Double Yellow, Sunbeam</td>
<td>5.8-6.2</td>
<td>5,000-9,000</td>
<td>59-76°F (15-24°C)</td>
<td>53-61°F (12-16°C)</td>
<td>175-225</td>
<td>1-3</td>
</tr>
<tr>
<td>BRACHYSCOME</td>
<td>Brasco™ Violet</td>
<td>5.8-6.2</td>
<td>5,000-9,000</td>
<td>65-73°F (18-23°C)</td>
<td>56-61°F (13-16°C)</td>
<td>175-225</td>
<td>0-1</td>
</tr>
<tr>
<td>BRACHYSCOME</td>
<td>Fresco™ Purple</td>
<td>5.8-6.2</td>
<td>5,000-9,000</td>
<td>65-75°F (18-24°C)</td>
<td>58-65°F (14-18°C)</td>
<td>125-200</td>
<td>0-1</td>
</tr>
<tr>
<td>BRACHYSCOME</td>
<td>Radiant Magenta</td>
<td>5.8-6.2</td>
<td>5,000-9,000</td>
<td>65-76°F (18-24°C)</td>
<td>62-67°F (17-19°C)</td>
<td>200-225</td>
<td>0-1</td>
</tr>
<tr>
<td>BRACTEANTHA</td>
<td>Dreamtime®</td>
<td>5.8-6.2</td>
<td>5,000-8,000</td>
<td>65-76°F (18-24°C)</td>
<td>56-61°F (13-16°C)</td>
<td>175-225</td>
<td>0-1</td>
</tr>
<tr>
<td>CALIBRACHOA</td>
<td>Bumble Bee™ Blue, Bumble Bee™ Hot Pink, Bumble Bee™ Orange, Bumble Bee™ Pink, Cabaret*, Cha-Cha™</td>
<td>5.4-5.8</td>
<td>5,000-8,000</td>
<td>71-76°F (22-24°C)</td>
<td>50-58°F (10-14°C)</td>
<td>225-300</td>
<td>1-2</td>
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<tr>
<td>CALIBRACHOA</td>
<td>Conga™</td>
<td>5.4-5.8</td>
<td>5,000-8,000</td>
<td>71-76°F (22-24°C)</td>
<td>50-58°F (10-14°C)</td>
<td>225-300</td>
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<tr>
<td>CELOSIA</td>
<td>Floriosa</td>
<td>5.5-6.5</td>
<td>1,000-2,500</td>
<td>75-80°F (24-27°C)</td>
<td>62-65°F (17-18°C)</td>
<td>100-175</td>
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<tr>
<td>CELOSIA</td>
<td>Intenz™</td>
<td>5.5-6.5</td>
<td>1,000-2,500</td>
<td>68-72°F (20-22°C)</td>
<td>62-65°F (17-18°C)</td>
<td>100-175</td>
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<tr>
<td>4 TO 5-IN. (10 TO 13-CM) POTS</td>
<td>6-IN. (15-CM) POT/GALLONS</td>
<td>10 TO 12-IN. (20 TO 30-CM) POTS OR BASKETS</td>
<td>PLANT GROWTH REGULATORS (S) SPRAY (D) DRENCH</td>
<td>PESTS</td>
<td>DISEASES</td>
<td>COMMENTS</td>
<td></td>
</tr>
<tr>
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<td></td>
</tr>
<tr>
<td>1 ppp, 6-8 weeks</td>
<td>1-2 ppp, 8-10 weeks</td>
<td>3-5 ppp, 10-12 weeks</td>
<td>Generally not needed. B-Nine(S) 2,500 ppm.</td>
<td>Spider mites</td>
<td>None</td>
<td>Pinch for better branching and shape.</td>
<td></td>
</tr>
<tr>
<td>1 ppp, 5-8 weeks</td>
<td>1-3 ppp, 7-9 weeks</td>
<td>3-5 ppp, 10-12 weeks</td>
<td>Generally not needed. B-Nine(S) 1,500-3,000 ppm and Cycocel 750-1,000 ppm tank mix(S). Avoid Florel use.</td>
<td>Whitefly, caterpillars</td>
<td>Root rot, Botrytis</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>1 ppp, 4-6 weeks</td>
<td>1-3 ppp, 7-9 weeks</td>
<td>3-5 ppp, 10-12 weeks</td>
<td>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.</td>
<td>Whitefly, caterpillars</td>
<td>Root rot, Botrytis</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>1-2 ppp, 5-7 weeks</td>
<td>2-3 ppp, 7-10 weeks</td>
<td>4-5 ppp, 8-12 weeks</td>
<td>Generally not needed. B-Nine(S) 2,500 ppm. Also responds to Sumagic(S) 3-5 ppm or Sumagic(D) 0.25 ppm.</td>
<td>Thrips, aphids</td>
<td>Root rot, Botrytis</td>
<td>Pinch as needed to shape. Grow Bacopa bright and cool to maximize branching and encourage best possible habit. Test soil regularly for high pH/Frion deficiency. Refer to the MegaCopa Series Bacopa Grower Facts at balseed.com for detailed culture information.</td>
<td></td>
</tr>
<tr>
<td>1 ppp, 5-7 weeks</td>
<td>2-3 ppp, 6-8 weeks</td>
<td>4-5 ppp, 6-9 weeks</td>
<td>PGR is generally not needed, as it is genetically compact. Bee Alive responds well to B-Nine applications at rates below 2,500 ppm.</td>
<td>Fungus gnats</td>
<td>Root and stem rot</td>
<td>Pinch for better branching and shape.</td>
<td></td>
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<tr>
<td>1-2 ppp, 5-7 weeks</td>
<td>1-3 ppp, 6-8 weeks</td>
<td>4-5 ppp, 6-9 weeks</td>
<td>B-nine(S) 2,500 ppm. Also responds to Sumagic(S) 3-5 ppm or Sumagic(D) 0.25 ppm.</td>
<td>Fungus gnats</td>
<td>Root and stem rot</td>
<td>Pinch for better branching and shape.</td>
<td></td>
</tr>
<tr>
<td>1 ppp, 5-7 weeks</td>
<td>2-3 ppp, 6-8 weeks</td>
<td>4-5 ppp, 6-9 weeks</td>
<td>B-Nine(S) 2,500 ppm. Also responds to Sumagic(S) 3-5 ppm or Sumagic(D) 0.25 ppm.</td>
<td>Fungus gnats</td>
<td>Root and stem rot</td>
<td>Pinch for better branching and shape.</td>
<td></td>
</tr>
<tr>
<td>1 ppp, 4-6 weeks</td>
<td>2-3 ppp, 6-8 weeks</td>
<td>4-5 ppp, 6-9 weeks</td>
<td>Generally not needed.</td>
<td>Thrips, whitefly</td>
<td>Botrytis, Thielaviopsis</td>
<td>Cool temperatures and high light will produce the best habit.</td>
<td></td>
</tr>
<tr>
<td>1 ppp, 5-7 weeks</td>
<td>2-3 ppp, 6-8 weeks</td>
<td>4-5 ppp, 10-14 weeks</td>
<td>Generally not needed.</td>
<td>Thrips, whitefly</td>
<td>Botrytis, Thielaviopsis</td>
<td>Cool temperatures and high light levels will produce the highest quality plants.</td>
<td></td>
</tr>
<tr>
<td>1 ppp, 4-6 weeks</td>
<td>1-2 ppp, 6-8 weeks</td>
<td>4-5 ppp, 12-14 weeks</td>
<td>Generally not needed. Grow plants under high light with warm temperatures to achieve the best quality.</td>
<td>Thrips, whitefly</td>
<td>Botrytis, Thielaviopsis</td>
<td>Supplement fertilizers with extra Fe to avoid yellowing foliage. Avoid cold and wet conditions.</td>
<td></td>
</tr>
<tr>
<td>1 ppp, 6-8 weeks</td>
<td>1-2 ppp, 7-9 weeks</td>
<td>3-5 ppp, 10-12 weeks</td>
<td>Generally not needed. Is responsive to Bonzi(S) 20-30 ppm or Sumagic(S) 10-20 ppm to maintain habit as needed.</td>
<td>Thrips, aphids, whitefly</td>
<td>Root and stem rot</td>
<td>High light and cool temperatures will improve plant quality significantly.</td>
<td></td>
</tr>
<tr>
<td>1 ppp, 6-9 weeks</td>
<td>1-2 ppp, 7-11 weeks</td>
<td>3-5 ppp, 8-12 weeks</td>
<td>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.</td>
<td>Thrips, aphids, leafminers</td>
<td>Root rot</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>1 ppp, 5-8 weeks</td>
<td>1-3 ppp, 6-10 weeks</td>
<td>3-5 ppp, 8-12 weeks</td>
<td>Plant growth regulators are generally not needed and should only be applied if plants show signs of requiring extra control. B-Nine(S) 1,500-3,000 ppm applied 1 time up to 3 times for large baskets to maintain habit as needed.</td>
<td>Thrips, aphids, leafminers</td>
<td>Root rot</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>1 ppp, 7-8 weeks</td>
<td>2-3 ppp, 8-9 weeks</td>
<td>3-4 ppp, 9-10 weeks</td>
<td>B-Nine is typically used at 2,500 ppm to assist in minimizing internode stretch. The first application should be made approximately 2 weeks after the pinch, when new shoots are about 1.5 in. (4 cm) in length. Then spray once a week for about 3 weeks. Bonzi drench at 1 to 2 ppm has also shown to be effective.</td>
<td>Aphids, thrips, mites, leafminers</td>
<td>Botrytis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 ppp, 8-9 weeks</td>
<td>2-3 ppp, 10-12 weeks</td>
<td>3-4 ppp, 12-14 weeks</td>
<td>B-Nine is typically used at 2,500 ppm to assist in minimizing internode stretch. The first application should be made approximately 2 weeks after the pinch, when new shoots are about 1.5 in. (4 cm) in length. Then spray once a week for about 3 weeks. Bonzi drench at 1 to 2 ppm has also shown to be effective.</td>
<td>Aphids, thrips, mites, leafminers</td>
<td>Botrytis</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* ppp=plants per pot  
** Perennial varieties that can be grown cold without treatment for Spring and Summer sales.
### Annual Culture Guide

<table>
<thead>
<tr>
<th>CROP</th>
<th>SERIES/VARIETY</th>
<th>SOIL PH</th>
<th>LIGHT LEVELS (FC)</th>
<th>TEMPERATURE DAY</th>
<th>TEMPERATURE NIGHT</th>
<th>FERTILIZATION (PPM N)</th>
<th>NO. OF PINCHES</th>
</tr>
</thead>
<tbody>
<tr>
<td>CELOSIA</td>
<td>Twisted</td>
<td>5.5-6.5</td>
<td>1,000-2,500</td>
<td>68-72°F (20-22°C)</td>
<td>62-65°F (17-18°C)</td>
<td>100-175</td>
<td>1</td>
</tr>
<tr>
<td>CLEOME</td>
<td>Lavender Dreams</td>
<td>5.8-6.2</td>
<td>4,000-10,000</td>
<td>74-85°F (23-29°C)</td>
<td>59-70°F (15-21°C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COLEUS</td>
<td>Burgundy Wedding Train, Florida Sun Rose, Lava Rose</td>
<td>5.8-6.2</td>
<td>4,000-10,000</td>
<td>74-85°F (23-29°C)</td>
<td>59-70°F (15-21°C)</td>
<td>175-225</td>
<td>0-2</td>
</tr>
<tr>
<td>COLEUS</td>
<td>Campfire, Coleosaurus, Dragon Heart, Electric Lime®, NEW French Quarter Improved, Heartbreaker, Henna, Indian Summer, Inferno, Limewire, Redhead, NEW Solar Flare, Trusty Rusty, Vino, Vulcan, Wasabi</td>
<td>5.8-6.2</td>
<td>4,000-10,000</td>
<td>74-85°F (23-29°C)</td>
<td>59-70°F (15-21°C)</td>
<td>175-225</td>
<td>0-2</td>
</tr>
<tr>
<td>COLEUS</td>
<td>Copperhead</td>
<td>5.8-6.2</td>
<td>4,000-10,000</td>
<td>74-85°F (23-29°C)</td>
<td>59-70°F (15-21°C)</td>
<td>175-225</td>
<td>0-2</td>
</tr>
<tr>
<td>COLEUS</td>
<td>FlameThrower™</td>
<td>5.8-6.2</td>
<td>4,000-10,000</td>
<td>74-85°F (23-29°C)</td>
<td>59-70°F (15-21°C)</td>
<td>175-225</td>
<td>0-2</td>
</tr>
<tr>
<td>COLEUS</td>
<td>MicroBlaze™</td>
<td>5.8-6.2</td>
<td>4,000-10,000</td>
<td>74-85°F (23-29°C)</td>
<td>59-70°F (15-21°C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COLEUS</td>
<td>Ruby Punch</td>
<td>5.8-6.2</td>
<td>4,000-10,000</td>
<td>74-85°F (23-29°C)</td>
<td>59-70°F (15-21°C)</td>
<td>175-225</td>
<td>0-2</td>
</tr>
<tr>
<td>COLEUS</td>
<td>Ruby Slipper, Special Effects</td>
<td>5.8-6.2</td>
<td>4,000-10,000</td>
<td>74-85°F (23-29°C)</td>
<td>59-70°F (15-21°C)</td>
<td>175-225</td>
<td>0-2</td>
</tr>
<tr>
<td>COLEUS</td>
<td>TrailBlazer™</td>
<td>5.8-6.2</td>
<td>4,000-10,000</td>
<td>74-85°F (23-29°C)</td>
<td>59-70°F (15-21°C)</td>
<td>175-225</td>
<td>0-2</td>
</tr>
<tr>
<td>CUPHEA</td>
<td>Allyson Heather</td>
<td>5.4-5.8</td>
<td>6,000-12,000</td>
<td>71-79°F (22-26°C)</td>
<td>59-64°F (15-18°C)</td>
<td>175-225</td>
<td>1-2</td>
</tr>
<tr>
<td>CUPHEA</td>
<td>Cherrybells, Honeybells, Sugarbells</td>
<td>5.4-5.8</td>
<td>6,000-12,000</td>
<td>70-75°F (21-24°C)</td>
<td>59-64°F (15-18°C)</td>
<td>175-225</td>
<td>1-2</td>
</tr>
<tr>
<td>CUPHEA</td>
<td>Firecracker</td>
<td>5.4-5.8</td>
<td>6,000-12,000</td>
<td>71-79°F (22-26°C)</td>
<td>59-64°F (15-18°C)</td>
<td>175-225</td>
<td>1-2</td>
</tr>
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</table>
**Annual Culture Guide**

<table>
<thead>
<tr>
<th>4 TO 5-IN. (10 TO 13-CM) POT, GALLONS</th>
<th>6-IN. (15-CM) POT, BASKETS</th>
<th>PLANT GROWTH REGULATORS (S) SPRAY (D) DRENCH</th>
<th>PESTS</th>
<th>DISEASES</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ppp, 8-9 weeks</td>
<td>2-3 ppp, 11-12 weeks</td>
<td>B-Nine (Alar) is typically used at 2,500 ppm to assist in minimizing internode stretch. The first application should be made approximately 2 weeks after the pinch, when new shoots are about 1.5 in. (4 cm) in length. Then spray once a week for about 3 weeks. Bonzi drench at 1 to 2 ppm has also shown to be effective.</td>
<td>Aphids, thrips, mites, leafminers</td>
<td>Botrytis</td>
<td></td>
</tr>
<tr>
<td>1 ppp, 6-7 weeks</td>
<td>1 ppp, 8-10 weeks</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 ppp, 5-7 weeks</td>
<td>1-2 ppp, 6-8 weeks</td>
<td>Generally not needed. Sumagic(S) 5-10 ppm or a B-Nine 2,500-3,500 ppm and Cyco 1,000-1,500 ppm tank mix can be used to maintain habit as needed.</td>
<td>Thrips, aphids</td>
<td>Root rot</td>
<td>Lava Rose Coleus will generally not require any PGR applications during production. Plants should be pinched only as needed since Lava Rose is extremely free-branching.</td>
</tr>
<tr>
<td>1 ppp, 5-7 weeks</td>
<td>1-3 ppp, 6-8 weeks</td>
<td>Is responsive to B-Nine(S) 2,500-3,500 ppm and Cyco 1,000-1,500 ppm tank mix or Sumagic(S) 5-10 ppm.</td>
<td>Whitefly, aphids, thrips</td>
<td>None</td>
<td>Pinch early to shape. Scout plants regularly for whitefly. Avoid crowding at all stages.</td>
</tr>
<tr>
<td>1 ppp, 5-7 weeks</td>
<td>1-3 ppp, 6-8 weeks</td>
<td>Is responsive to B-Nine(S) 2,500-3,500 ppm and Cyco 1,000-1,500 ppm tank mix or Sumagic(S) 5-10 ppm.</td>
<td>Whitefly, aphids</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>1 ppp, 5-7 weeks</td>
<td>1-2 ppp, 6-8 weeks</td>
<td>Generally not needed. Sumagic(S) 5-10 ppm or a B-Nine 2,500-3,500 ppm and Cyco 1,000-1,500 ppm tank mix can be used to maintain habit as needed.</td>
<td>Thrips, aphids</td>
<td>Root rot</td>
<td>Scout plants regularly for whitefly. Avoid crowding at all stages.</td>
</tr>
<tr>
<td>1 ppp, 5-7 weeks</td>
<td>1-3 ppp, 8-10 weeks</td>
<td>No PGR is recommended for this variety.</td>
<td>Whitefly, aphids</td>
<td>Downey mildew</td>
<td>Good branching coleus. No pinch. No PGR after transplant.</td>
</tr>
<tr>
<td>1 ppp, 5-7 weeks</td>
<td>1-3 ppp, 6-8 weeks</td>
<td>Generally not needed. Sumagic(S) 5-10 ppm or a B-Nine 2,500-3,500 ppm and Cyco 1,000-1,500 ppm tank mix can be used to maintain habit as needed.</td>
<td>Thrips, aphids</td>
<td>None</td>
<td>Scout plants regularly for whitefly. Avoid crowding at all stages.</td>
</tr>
<tr>
<td>1 ppp, 5-7 weeks</td>
<td>1-3 ppp, 6-8 weeks</td>
<td>Generally not needed. Sumagic(S) 5-10 ppm or a B-Nine 2,500-3,500 ppm and Cyco 1,000-1,500 ppm tank mix can be used to maintain habit as needed.</td>
<td>Thrips, aphids</td>
<td>None</td>
<td>Pinch early to shape. Scout plants regularly for whitefly. Avoid crowding at all stages.</td>
</tr>
<tr>
<td>1 ppp, 5-7 weeks</td>
<td>1-2 ppp, 6-8 weeks</td>
<td>Generally not needed. Sumagic(S) 5-10 ppm or a B-Nine 2,500-3,500 ppm and Cyco 1,000-1,500 ppm tank mix can be used to maintain habit as needed.</td>
<td>Thrips, aphids</td>
<td>Root rot</td>
<td>Trailblazer Coleus will generally not require any PGR applications during production. Plants should be pinched only as needed since Trailblazer is extremely free-branching.</td>
</tr>
<tr>
<td>1 ppp, 6-8 weeks</td>
<td>2-5 ppp, 7-9 weeks</td>
<td>None</td>
<td>Whitefly, aphids</td>
<td>Botrytis, Root rot</td>
<td>Pinch as needed to shape. Fertilize regularly. Crop times will be shortest under high light.</td>
</tr>
<tr>
<td>1 ppp, 6-8 weeks</td>
<td>2-5 ppp, 7-9 weeks</td>
<td>Benefits from a Bonzi(D) 2 ppm to control finished habit. Also can benefit from a Floret(S) 250 ppm tank mix with Configure(S) 75 ppm to increase branching.</td>
<td>Whitefly, aphids</td>
<td>Botrytis, Root rot</td>
<td>Pinch as needed to shape. Fertilize regularly. Crop times will be shortest under high light.</td>
</tr>
<tr>
<td>1 ppp, 6-8 weeks</td>
<td>1-2 ppp, 7-9 weeks</td>
<td>None</td>
<td>Whitefly, aphids</td>
<td>Botrytis, Oedema, Root rot</td>
<td>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.</td>
</tr>
</tbody>
</table>

* ppp=plants per pot
** Perennial varieties that can be grown cold without treatment for Spring and Summer sales.
<table>
<thead>
<tr>
<th>CROP</th>
<th>SERIES/VARIETY</th>
<th>SOIL PH</th>
<th>LIGHT LEVELS (FC)</th>
<th>TEMPERATURE DAY</th>
<th>TEMPERATURE NIGHT</th>
<th>FERTILIZATION (PPM N)</th>
<th>NO. OF PINCHES</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIASCIA</td>
<td>Juliet™</td>
<td>5.8-6.2</td>
<td>5,000-8,000</td>
<td>62-76°F (17-24°C)</td>
<td>35-52°F (2-11°C)</td>
<td>175-225</td>
<td>1-2</td>
</tr>
<tr>
<td>DIPLADENIA (BUSH)</td>
<td>Jade</td>
<td>5.5-7.5</td>
<td>3,700-3,750</td>
<td>70-75°F (21-24°C)</td>
<td>60-70°F (16-21°C)</td>
<td>190-210</td>
<td>1</td>
</tr>
<tr>
<td>DIPLADENIA (VINING)</td>
<td>Coral Orange, Opal</td>
<td>5.5-6.0</td>
<td>5,000-7,000</td>
<td>70-75°F (21-24°C)</td>
<td>60-65°F (16-18°C)</td>
<td>225-300</td>
<td>0</td>
</tr>
<tr>
<td>EUPHORBIA</td>
<td>Breathless®, NEW Flurry</td>
<td>5.8-6.2</td>
<td>6,000-9,000</td>
<td>65-76°F (18-24°C)</td>
<td>59-67°F (15-19°C)</td>
<td>175-225</td>
<td>1</td>
</tr>
<tr>
<td>EVOLVULUS</td>
<td>Blue Daze</td>
<td>5.8-6.2</td>
<td>5,000-9,000</td>
<td>74-79°F (23-26°C)</td>
<td>59-64°F (15-18°C)</td>
<td>175-225</td>
<td>1-2</td>
</tr>
<tr>
<td>EXACUM</td>
<td>Jupiter</td>
<td>5.2-5.6</td>
<td>1,000-2,500</td>
<td>70-75°F (21-24°C)</td>
<td>66-70°F (19-21°C)</td>
<td>225-300</td>
<td>none</td>
</tr>
<tr>
<td>GERANIUM (IVY)</td>
<td>Focus™</td>
<td>5.8-6.2</td>
<td>2,500-4,000</td>
<td>65-76°F (18-24°C)</td>
<td>62-67°F (17-19°C)</td>
<td>225-300</td>
<td>1-2</td>
</tr>
<tr>
<td>GERANIUM (IVY)</td>
<td>Precision™</td>
<td>5.8-6.2</td>
<td>2,500-4,000</td>
<td>65-76°F (18-24°C)</td>
<td>62-67°F (17-19°C)</td>
<td>225-300</td>
<td>1-2</td>
</tr>
<tr>
<td>GERANIUM (ZONAL)</td>
<td>Dynamo™</td>
<td>6.2-6.6</td>
<td>3,500-6,000</td>
<td>65-76°F (18-24°C)</td>
<td>62-67°F (17-19°C)</td>
<td>225-300</td>
<td>0</td>
</tr>
<tr>
<td>GERANIUM (ZONAL)</td>
<td>Fantasia®</td>
<td>6.2-6.6</td>
<td>3,500-6,000</td>
<td>65-76°F (18-24°C)</td>
<td>62-67°F (17-19°C)</td>
<td>225-300</td>
<td>0</td>
</tr>
<tr>
<td>GERANIUM (ZONAL)</td>
<td>Galaxy™</td>
<td>6.2-6.6</td>
<td>3,500-6,000</td>
<td>65-76°F (18-24°C)</td>
<td>62-67°F (17-19°C)</td>
<td>225-300</td>
<td>0</td>
</tr>
<tr>
<td>GERANIUM (ZONAL)</td>
<td>Presto™</td>
<td>6.2-6.6</td>
<td>3,500-6,000</td>
<td>65-76°F (18-24°C)</td>
<td>62-67°F (17-19°C)</td>
<td>225-300</td>
<td>0</td>
</tr>
<tr>
<td>GOMPHRENA</td>
<td>Piñata</td>
<td>5.8-6.2</td>
<td>3,500-5,000</td>
<td>65-72°F (18-22°C)</td>
<td>66°F (19°C)</td>
<td>150-200</td>
<td>1-2</td>
</tr>
<tr>
<td>HELICHRYSUM</td>
<td>Licorice</td>
<td>5.8-6.2</td>
<td>4,000-9,000</td>
<td>65-76°F (18-24°C)</td>
<td>50-61°F (10-16°C)</td>
<td>175-225</td>
<td>1-2</td>
</tr>
<tr>
<td>HELIOTROPE</td>
<td>Marine</td>
<td>5.8-6.2</td>
<td>5,000-9,000</td>
<td>71-76°F (22-24°C)</td>
<td>50-61°F (10-16°C)</td>
<td>175-225</td>
<td>1-2</td>
</tr>
</tbody>
</table>
### Annual Culture Guide

<table>
<thead>
<tr>
<th>4 TO 5-IN. (10 TO 13-CM) POTS, GALLONS</th>
<th>6-IN. (15-CM) POTS OR BASKETS</th>
<th>PLANT GROWTH REGULATORS</th>
<th>PESTS</th>
<th>DISEASES</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ppp, 5-7 weeks</td>
<td>1-2 ppp, 7-9 weeks</td>
<td>3-4 ppp, 9-11 weeks</td>
<td>Thrips, aphids, leafminers</td>
<td>Root rot</td>
<td>If grown cool and with high light levels, Juliet Diascia will generally require little, if any, PGRs.</td>
</tr>
<tr>
<td>1 ppp, 16-18 weeks</td>
<td>1 ppp, 20-22 weeks</td>
<td>3 ppp, 20-22 weeks</td>
<td>None</td>
<td>Aphids (during early Spring), spider mites (during very dry weather)</td>
<td>Fusarium, Pythium</td>
</tr>
<tr>
<td>1 ppp, 16-18 weeks</td>
<td>1 ppp, 20-22 weeks</td>
<td>2 ppp, 20-22 weeks</td>
<td>None</td>
<td>Aphids (during early Spring), spider mites (during very dry weather)</td>
<td>Bacteria Leaf Spot</td>
</tr>
<tr>
<td>1 ppp, 5-7 weeks</td>
<td>1-3 ppp, 6-9 weeks</td>
<td>3-5 ppp, 9-11 weeks</td>
<td>B-Nine(S) 2,500 ppm, Cycocel(S) 750 ppm tank mix 7-10 days after transplant. Do not use Florel.</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>1 ppp, 6-8 weeks</td>
<td>1-2 ppp, 8-9 weeks</td>
<td>3-4 ppp, 10-12 weeks</td>
<td>None</td>
<td>Whitefly, aphids</td>
<td>Pythium, Botrytis</td>
</tr>
<tr>
<td>1 ppp, 11-12 weeks</td>
<td>3 ppp, 13-14 weeks</td>
<td>None as they are naturally compact.</td>
<td>Aphids</td>
<td>Botrytis</td>
<td>Bottom heat is recommended. Keep foliage dry/avoid overhead watering and humidity below 80% to avoid Botrytis. Keep plants evenly moist but avoid over watering and grow on the dry side. Pinching is not required.</td>
</tr>
<tr>
<td>1 ppp, 8-10 weeks</td>
<td>1-2 ppp, 9-10 weeks</td>
<td>4-5 ppp, 11-13 weeks</td>
<td>Cycocel(S) 750-1,500 ppm to control growth; Florel(S) 200-300 ppm to improve branching. PGR generally not needed for basket production.</td>
<td>Fungus gnats, thrips, aphids, mites</td>
<td>Botrytis, Oedema, Pythium, Xanthomonas</td>
</tr>
<tr>
<td>1 ppp, 8-10 weeks</td>
<td>1-2 ppp, 9-10 weeks</td>
<td>4-5 ppp, 11-13 weeks</td>
<td>Cycocel(S) 750-1,500 ppm to control growth; Florel(S) 200-300 ppm to improve branching.</td>
<td>Fungus gnats, thrips, aphids, mites</td>
<td>Botrytis, Oedema, Pythium, Xanthomonas</td>
</tr>
<tr>
<td>1 ppp, 8-9 weeks</td>
<td>1-2 ppp, 9-10 weeks</td>
<td>4-5 ppp, 11-13 weeks</td>
<td>Cycocel(S) 750-1,000 ppm to control growth; Florel(S) 200-300 ppm to improve branching.</td>
<td>Fungus gnats, thrips, aphids, mites</td>
<td>Botrytis, Pythium, Xanthomonas</td>
</tr>
<tr>
<td>1 ppp, 8-9 weeks</td>
<td>1-2 ppp, 9-10 weeks</td>
<td>4-5 ppp, 11-13 weeks</td>
<td>Cycocel(S) 750-1,000 ppm to control growth; Florel(S) 200-300 ppm to improve branching.</td>
<td>Fungus gnats, thrips, aphids, mites</td>
<td>Botrytis, Pythium, Xanthomonas</td>
</tr>
<tr>
<td>1 ppp, 8-9 weeks</td>
<td>1-2 ppp, 9-10 weeks</td>
<td>4-5 ppp, 11-13 weeks</td>
<td>Generally not needed. Cycocel(S) 750-1,000 ppm to control growth; Florel(S) 200-300 ppm to improve branching.</td>
<td>Fungus gnats, thrips, aphids, mites</td>
<td>Botrytis, Pythium, Xanthomonas</td>
</tr>
<tr>
<td>1 ppp, 7-8 weeks</td>
<td>1-2 ppp, 8-10 weeks</td>
<td>2-3 ppp, 10-12 weeks</td>
<td>If necessary, applying B-Nine (daminizidine) at 1,500 ppm/0.15% is an option to control plant height and/or help tone the plant.</td>
<td>Thrips</td>
<td>Botrytis</td>
</tr>
<tr>
<td>1 ppp, 5-7 weeks</td>
<td>2-3 ppp, 7-9 weeks</td>
<td>3-5 ppp, 9-11 weeks</td>
<td>None</td>
<td>Fungus gnats, whitefly</td>
<td>Root rot</td>
</tr>
<tr>
<td>1 ppp, 6-7 weeks</td>
<td>1-2 ppp, 8-9 weeks</td>
<td>3-5 ppp, 10-12 weeks</td>
<td>Use B-Nine 1,500-3,000 ppm and Cycocel 750-1,000 ppm tank mix(S).</td>
<td>Whitefly, mites, aphids</td>
<td>Root rot</td>
</tr>
</tbody>
</table>

* ppp=plants per pot

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

<table>
<thead>
<tr>
<th>CROP</th>
<th>SERIES/VARIETY</th>
<th>SOIL PH</th>
<th>LIGHT LEVELS (FC)</th>
<th>TEMPERATURE DAY</th>
<th>TEMPERATURE NIGHT</th>
<th>FERTILIZATION (PPM N)</th>
<th>NO. OF PINCHES</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMPATIENS</td>
<td>SunPatiens® Compact</td>
<td>5.8-6.2</td>
<td>4,000-9,000</td>
<td>68-79°F (20-26°C)</td>
<td>59-64°F (15-18°C)</td>
<td>75-150</td>
<td>0</td>
</tr>
<tr>
<td>IMPATIENS (DOUBLE)</td>
<td>Fiesta™</td>
<td>5.8-6.2</td>
<td>4,000-6,000</td>
<td>68-76°F (20-24°C)</td>
<td>56-61°F (13-16°C)</td>
<td>175-225</td>
<td>0-1</td>
</tr>
<tr>
<td>IMPATIENS (DOUBLE)</td>
<td>Glimmer™</td>
<td>5.8-6.2</td>
<td>4,000-6,000</td>
<td>68-76°F (20-24°C)</td>
<td>56-61°F (13-16°C)</td>
<td>175-225</td>
<td>0-1</td>
</tr>
<tr>
<td>IMPATIENS (EXOTIC)</td>
<td>Patchwork™</td>
<td>5.8-6.2</td>
<td>4,000-6,000</td>
<td>68-76°F (20-24°C)</td>
<td>56-61°F (13-16°C)</td>
<td>175-225</td>
<td>0-1</td>
</tr>
<tr>
<td>IMPATIENS (NEW GUINEA)</td>
<td>Celebration</td>
<td>5.8-6.2</td>
<td>4,000-7,000</td>
<td>68-76°F (20-24°C)</td>
<td>59-64°F (15-18°C)</td>
<td>175-225</td>
<td>0</td>
</tr>
<tr>
<td>IMPATIENS (NEW GUINEA)</td>
<td>Clockwork™</td>
<td>5.8-6.2</td>
<td>4,000-7,000</td>
<td>68-76°F (20-24°C)</td>
<td>59-64°F (15-18°C)</td>
<td>175-225</td>
<td>0</td>
</tr>
<tr>
<td>IPOMOEA</td>
<td>SolarPower™, Spotlight™</td>
<td>5.8-6.2</td>
<td>6,000-10,000</td>
<td>70-75°F (21-24°C)</td>
<td>65-70°F (18-21°C)</td>
<td>175-225</td>
<td>0-1</td>
</tr>
<tr>
<td>IPOMOEA</td>
<td>SolarTower™</td>
<td>5.8-6.2</td>
<td>6,000-10,000</td>
<td>70-75°F (21-24°C)</td>
<td>65-70°F (18-21°C)</td>
<td>175-225</td>
<td>0-1</td>
</tr>
<tr>
<td>IRESINE</td>
<td>Blazin’ Lime, Blazin’ Rose</td>
<td>5.8-6.2</td>
<td>4,000-7,000</td>
<td>71-79°F (22-26°C)</td>
<td>62-67°F (17-19°C)</td>
<td>175-225</td>
<td>1-2</td>
</tr>
<tr>
<td>LAMIATRUM</td>
<td>Jade Frost</td>
<td>5.8-6.2</td>
<td>4,000-8,000</td>
<td>71-79°F (22-26°C)</td>
<td>59-64°F (15-18°C)</td>
<td>175-225</td>
<td>1-2</td>
</tr>
<tr>
<td>LAMIUM</td>
<td>Anne Greenaway, Beacon Silver, White Nancy</td>
<td>5.8-6.2</td>
<td>4,000-8,000</td>
<td>71-79°F (22-26°C)</td>
<td>59-64°F (15-18°C)</td>
<td>175-225</td>
<td>1-2</td>
</tr>
<tr>
<td>LANTANA</td>
<td>Bloomify™</td>
<td>5.8-6.2</td>
<td>5,000-10,000</td>
<td>74-85°F (23-29°C)</td>
<td>62-67°F (17-19°C)</td>
<td>225-300</td>
<td>1-3</td>
</tr>
<tr>
<td>LANTANA</td>
<td>NEW PassionFruit</td>
<td>5.8-6.2</td>
<td>6,000-10,000</td>
<td>74-85°F (23-29°C)</td>
<td>62-67°F (17-19°C)</td>
<td>175-225</td>
<td>2</td>
</tr>
<tr>
<td>LANTANA</td>
<td>Landmark™, Little Lucky™, Lucky™, New Gold, Purple Falls, Shamrock™, SunDance™</td>
<td>5.8-6.2</td>
<td>5,000-10,000</td>
<td>74-85°F (23-29°C)</td>
<td>62-67°F (17-19°C)</td>
<td>225-300</td>
<td>1-3</td>
</tr>
</tbody>
</table>
## Annual Culture Guide

<table>
<thead>
<tr>
<th>4 TO 5-IN. (10 TO 13-CM) POTS</th>
<th>6-IN. (15-CM) POTS, GALLONS</th>
<th>10 TO 12-IN. (20 TO 30-CM) POTS OR BASKETS</th>
<th>PLANT GROWTH REGULATORS (S) SPRAY (D) DRENCH</th>
<th>PESTS</th>
<th>DISEASES</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ppp, 5-7 weeks</td>
<td>1 ppp, 5-7 weeks</td>
<td>3 ppp, 9-12 weeks</td>
<td>B-Nine/Bonzi(S) 1,000 ppm; B-Nine/2 ppm Bonzi (low rate) for Compact series.</td>
<td>Thrips, aphids, mites</td>
<td>Necrotic Spot Virus, Botrytis, Pythium</td>
<td>Dry culture, low to moderate nutrition, and cool temperatures will promote toned plants.</td>
</tr>
<tr>
<td>1 ppp, 6-9 weeks</td>
<td>1-2 ppp, 7-9 weeks</td>
<td>4-5 ppp, 10-12 weeks</td>
<td>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.</td>
<td>Leafminers, thrips</td>
<td>Necrotic Spot Virus, Botrytis, Pythium</td>
<td>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.</td>
</tr>
<tr>
<td>1 ppp, 5-7 weeks</td>
<td>1-2 ppp, 6-8 weeks</td>
<td>4-5 ppp, 9-12 weeks</td>
<td>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.</td>
<td>Leafminers, thrips</td>
<td>Necrotic Spot Virus, Botrytis, Pythium</td>
<td>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.</td>
</tr>
<tr>
<td>1 ppp, 6-8 weeks</td>
<td>1-2 ppp, 7-9 weeks</td>
<td>3-5 ppp, 10-12 weeks</td>
<td>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.</td>
<td>Aphids, thrips</td>
<td>Necrotic Spot Virus, Botrytis, Pythium</td>
<td>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. Light Bonzi drench when plant is three-quarters of finish size will promote flowering above the foliage.</td>
</tr>
<tr>
<td>1 ppp, 7-9 weeks</td>
<td>1-2 ppp, 9-10 weeks</td>
<td>3-5 ppp, 10-13 weeks</td>
<td>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.</td>
<td>Thrips, aphids, mites</td>
<td>Necrotic Spot Virus, Botrytis, Pythium</td>
<td>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.</td>
</tr>
<tr>
<td>1 ppp, 6-8 weeks</td>
<td>1-2 ppp, 7-9 weeks</td>
<td>4-5 ppp, 8-11 weeks</td>
<td>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.</td>
<td>Thrips, aphids, mites</td>
<td>Necrotic Spot Virus, Botrytis, Pythium</td>
<td>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.</td>
</tr>
<tr>
<td>1 ppp, 4-5 weeks</td>
<td>1-3 ppp, 5-6 weeks</td>
<td>3-5 ppp, 6-10 weeks</td>
<td>Generally not required. B-Nine(S) 2,500-3,500 ppm can be effective at controlling growth.</td>
<td>Aphids, whitefly, spider mites</td>
<td>Pseudomonas</td>
<td>Avoid cold and wet conditions.</td>
</tr>
<tr>
<td>1 ppp, 4-5 weeks</td>
<td>1-3 ppp, 5-6 weeks</td>
<td>3-5 ppp, 6-10 weeks</td>
<td>Generally not required. B-Nine(S) 2,500-3,500 ppm can be effective at controlling growth.</td>
<td>Aphids, whitefly, spider mites</td>
<td>Pseudomonas</td>
<td>Avoid cold and wet conditions. In order for the product to climb pots, it needs to have a stake or trellis included.</td>
</tr>
<tr>
<td>1 ppp, 7-9 weeks</td>
<td>2-3 ppp, 8-10 weeks</td>
<td>4-5 ppp, 10-13 weeks</td>
<td>Generally not needed. Responsive to Bonzi.</td>
<td>Whitefly</td>
<td>None</td>
<td>Pinch regularly to encourage branching and improve habit.</td>
</tr>
<tr>
<td>1 ppp, 4-5 weeks</td>
<td>2-3 ppp, 5-8 weeks</td>
<td>3-5 ppp, 8-10 weeks</td>
<td>Generally not needed. Soil moisture and cool temperatures are the most effective way to control growth.</td>
<td>Aphids, whitefly</td>
<td>Root and stem rot</td>
<td>Pinch plants to encourage branching and improve habit.</td>
</tr>
<tr>
<td>1 ppp, 4-5 weeks</td>
<td>2-3 ppp, 5-8 weeks</td>
<td>3-5 ppp, 8-10 weeks</td>
<td>Generally not needed. Soil moisture and cool temperatures are the most effective way to control growth.</td>
<td>Aphids, whitefly</td>
<td>Root and stem rot</td>
<td>Pinch plants to encourage branching and improve habit.</td>
</tr>
<tr>
<td>1-2 ppp, 7-8 weeks</td>
<td>1-3 ppp, 8-9 weeks</td>
<td>3-6 ppp, 11-13 weeks</td>
<td>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.</td>
<td>Whitefly, leafminers, aphids</td>
<td>Root rot</td>
<td>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.</td>
</tr>
<tr>
<td>1 ppp, 6-7 weeks</td>
<td>1-3 ppp, 7-8 weeks</td>
<td>3-6 ppp, 10-12 weeks</td>
<td>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. Little Lucky should not need growth regulators due to its naturally compact habit.</td>
<td>Whitefly, leafminers, aphids</td>
<td>Root rot</td>
<td>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. Landmark varieties are more vigorous.</td>
</tr>
</tbody>
</table>

*ppp=plants per pot

**Perennial varieties that can be grown cold without treatment for Spring and Summer sales.
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<thead>
<tr>
<th>CROP</th>
<th>SERIES/VARIETY</th>
<th>SOIL PH</th>
<th>LIGHT LEVELS (FC)</th>
<th>TEMPERATURE DAY</th>
<th>TEMPERATURE NIGHT</th>
<th>FERTILIZATION (PPM N)</th>
<th>NO. OF PINCHES</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOBELIA</td>
<td>Early Springs™</td>
<td>5.8-6.2</td>
<td>5,000-8,000</td>
<td>71-76°F (22-24°C)</td>
<td>56-61°F (13-16°C)</td>
<td>175-225</td>
<td>1-2</td>
</tr>
<tr>
<td>LOBELIA</td>
<td>Waterfall™</td>
<td>5.8-6.2</td>
<td>5,000-8,000</td>
<td>71-76°F (22-24°C)</td>
<td>56-61°F (13-16°C)</td>
<td>175-225</td>
<td>1-2</td>
</tr>
<tr>
<td>LOBULARIA</td>
<td>Easy Breezy™</td>
<td>5.8-6.2</td>
<td>4,000-8,000</td>
<td>65-75°F (18-24°C)</td>
<td>56-61°F (13-16°C)</td>
<td>175-225</td>
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<tr>
<td>LYSIMACHIA</td>
<td>Goldilocks</td>
<td>5.8-6.2</td>
<td>4,000-8,000</td>
<td>71-79°F (22-26°C)</td>
<td>59-64°F (15-18°C)</td>
<td>175-225</td>
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<tr>
<td>MANDEVILLA (BUSH)</td>
<td>Tourmaline</td>
<td>5.5-7.5</td>
<td>5,000-7,000</td>
<td>70-75°F (21-24°C)</td>
<td>60-65°F (18-18°C)</td>
<td>190-210</td>
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<tr>
<td>MANDEVILLA (Vining)</td>
<td>Agate XXL White</td>
<td>5.5-6.0</td>
<td>5,000-7,000</td>
<td>70-75°F (21-24°C)</td>
<td>60-70°F (16-21°C)</td>
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<tr>
<td>MECARDONIA</td>
<td>Little Sunshine</td>
<td>5.5-6.0</td>
<td>3,500-6,000</td>
<td>68-77°F (20-25°C)</td>
<td>68°F (20°C)</td>
<td>150-200</td>
<td>2 for pot sizes over 6 in. (15 cm)</td>
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<tr>
<td>NEMESIA</td>
<td>Aromatica™</td>
<td>5.8-6.2</td>
<td>4,000-7,000</td>
<td>65-76°F (18-24°C)</td>
<td>35-52°F (2-11°C)</td>
<td>175-225</td>
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<tr>
<td>NEMESIA</td>
<td>SunGlow™</td>
<td>5.7-6.2</td>
<td>4,000-7,000</td>
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<td>45-55°F (7-13°C)</td>
<td>175-225</td>
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<tr>
<td>OSTEOSPERMUM</td>
<td>Blue Eyed Beauty, Blushing Beauty, Serenity™, Sunshine Beauty</td>
<td>5.8-6.2</td>
<td>5,000-9,000</td>
<td>59-76°F (15-24°C)</td>
<td>44-55°F (7-13°C)</td>
<td>225-300</td>
<td>1</td>
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<tr>
<td>OSTEOSPERMUM</td>
<td>Voltage™ Gold, Voltage™ White, Voltage™ Yellow</td>
<td>5.8-6.2</td>
<td>5,000-9,000</td>
<td>59-76°F (15-24°C)</td>
<td>44-55°F (7-13°C)</td>
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<tr>
<td>PERILLA</td>
<td>Magilla® Purple</td>
<td>5.8-6.2</td>
<td>4,000-10,000</td>
<td>74-85°F (23-29°C)</td>
<td>59-70°F (15-21°C)</td>
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<tr>
<td>PETCHOA</td>
<td>SuperCal®</td>
<td>5.4-5.9</td>
<td>5,000-8,000</td>
<td>60-70°F (16-21°C)</td>
<td>50-58°F (10-14°C)</td>
<td>200-250</td>
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<tr>
<td>PETCHOA</td>
<td>SuperCal® Premium</td>
<td>5.4-5.9</td>
<td>5,000-8,000</td>
<td>60-70°F (16-21°C)</td>
<td>50-58°F (10-14°C)</td>
<td>200-250</td>
<td>1-2</td>
</tr>
<tr>
<td>4 TO 5-IN. (10 TO 13-CM) POTS</td>
<td>6-IN. (15-CM) POTS, GALLONS</td>
<td>10 TO 12-IN. (20 TO 30-CM) POTS OR BASKETS</td>
<td>PLANT GROWTH REGULATORS (S) SPRAY (D) DRENCH</td>
<td>PESTS</td>
<td>DISEASES</td>
<td>COMMENTS</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>1 ppp, 7-9 weeks</td>
<td>1 ppp, 9-11 weeks</td>
<td>4-5 ppp, 10-12 weeks</td>
<td>Generally not needed.</td>
<td>Aphids, thrips</td>
<td>Botrytis</td>
<td>Transplant 24-28 days after stick, and optional pinch again 10-14 days after transplant. 4-in. (10-cm) size may skip second pinch. Keep on dry side.</td>
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<tr>
<td>1 ppp, 9-10 weeks</td>
<td>2-3 ppp, 10-11 weeks</td>
<td>4-5 ppp, 10-13 weeks</td>
<td>Generally not needed.</td>
<td>Thrips</td>
<td>Botrytis</td>
<td>Blue has 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.</td>
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<tr>
<td>1 ppp, 4-5 weeks</td>
<td>1-2 ppp, 5-7 weeks</td>
<td>3-5 ppp, 6-8 weeks</td>
<td>Generally not needed. Grow plants under high light and use negative differential of temperature to tone plant habits.</td>
<td>Fungus gnats, whitefly</td>
<td>Root and stem rot</td>
<td>High light and cool temperatures produce high-quality plants.</td>
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<tr>
<td>1 ppp, 4-5 weeks</td>
<td>2-3 ppp, 5-8 weeks</td>
<td>3-5 ppp, 8-10 weeks</td>
<td>Generally not needed. Pinching is best for shaping the plant.</td>
<td>None</td>
<td>None</td>
<td>Goldilocks Lysimachia is grown primarily for its foliage.</td>
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<tr>
<td>1 ppp, 16-18 weeks</td>
<td>2 ppp, 20-22 weeks</td>
<td>2 ppp, 20-22 weeks</td>
<td>None</td>
<td>Aphids (during early Spring), spider mites (during very dry weather)</td>
<td>Bacteria Leaf Spot</td>
<td><strong>Perennial varieties that can be grown cold without treatment for Spring and Summer sales.</strong></td>
<td></td>
</tr>
<tr>
<td>1 ppp, 16-18 weeks</td>
<td>1 ppp, 20-22 weeks</td>
<td>2 ppp, 20-22 weeks</td>
<td>None</td>
<td>Aphids (during early Spring), spider mites (during very dry weather)</td>
<td>Bacteria Leaf Spot</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 ppp, 6-8 weeks</td>
<td>2-3 ppp, 6-8 weeks</td>
<td>5-6 ppp, 10-12 weeks</td>
<td>Plant Growth Regulators not needed when grown in high light.</td>
<td>Aphids, fungus gnats, slugs/snails</td>
<td>Botrytis, Root and stem rot</td>
<td>Mecardonia is heat and drought tolerant in the landscape. Generally, finished production pots can be produced with little to no maintenance required.</td>
<td></td>
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<tr>
<td>1 ppp, 5-7 weeks</td>
<td>2-3 ppp, 7-9 weeks</td>
<td>3-4 ppp, 9-11 weeks</td>
<td>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 Floret(S) 200-300 ppm.</td>
<td>Thrips, aphids, leafminers</td>
<td>Root rot</td>
<td>If grown cool and with high light levels, Aromatica will generally require little, if any, PGRs. Avoid water-logged media.</td>
<td></td>
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<tr>
<td>1 ppp, 5-7 weeks</td>
<td>2 ppp, 7-8 weeks</td>
<td>3-4 ppp, 9-12 weeks</td>
<td>If necessary, B-Nine spray at 2,500-3,500 ppm can be effective. Growing cool helps to prevent stretch.</td>
<td>Thrips, aphids</td>
<td>Root rot, Botrytis</td>
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<tr>
<td>1 ppp, 10-13 weeks</td>
<td>2-3 ppp, 11-14 weeks</td>
<td>3-4 ppp, 11-15 weeks</td>
<td>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.</td>
<td>Aphids, whitefly, thrips</td>
<td>Root and stem rot, Botrytis</td>
<td>After transplanting, allow plants to become established for 1-2 weeks at 60-65°F (15-18°C). Once plants are well established, begin growing at recommended cool temperatures. After 4-6 weeks of cool conditions, plants can be forced in 6-8 weeks.</td>
<td></td>
</tr>
<tr>
<td>1 ppp, 8-11 weeks</td>
<td>1-2 ppp, 8-11 weeks</td>
<td>3-5 ppp, 8-11 weeks</td>
<td>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.</td>
<td>Aphids, whitefly, thrips</td>
<td>Root and stem rot, Botrytis</td>
<td>After transplanting, allow plants to become established for 1-2 weeks at 60-65°F (15-18°C). Once plants are well established, begin growing at recommended cool temperatures. Pinch optional. After 4-6 weeks of cool conditions, plants can be forced in 6-8 weeks.</td>
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<tr>
<td>1 ppp, 5-7 weeks</td>
<td>1-2 ppp, 6-8 weeks</td>
<td>3-4 ppp, 8-11 weeks</td>
<td>B-Nine(S) 2,000-4,000 ppm, applied 1-3 times, can be used to control habit.</td>
<td>Thrips, aphids, whitefly</td>
<td>Root rot</td>
<td>Plants should be pinched as needed to control habit. Crop times will be shorter under long days or warmer temperatures.</td>
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<tr>
<td>1 ppp, 6-8 weeks</td>
<td>1-3 ppp, 7-9 weeks</td>
<td>3-5 ppp, 9-12 weeks</td>
<td>Foliar sprays of A-Rest 10-30 ppm or sprays of B-Nine/Bonzi tank mix, B-Nine 2,500-5,000 ppm/Bonzi 10-30 ppm. Drench of A-Rest 1-3 ppm, or drench of Bonzi 1-4 ppm.</td>
<td>Whitefly, thrips, leafminers, aphids, mites</td>
<td>Botrytis, Crown rot, Tobacco Mosaic Virus</td>
<td>Cool temperatures and high light reduce need for PGR. SuperCal Blue is high vigor. Artist Rose, Cherry, Neon Rose and Pink Ice are medium vigor.</td>
<td></td>
</tr>
<tr>
<td>1 ppp, 6-8 weeks</td>
<td>1-3 ppp, 7-9 weeks</td>
<td>3-5 ppp, 9-12 weeks</td>
<td>Foliar sprays of A-Rest 10-30 ppm or sprays of B-Nine/Bonzi tank mix, B-Nine 2,500-5,000 ppm/Bonzi 10-30 ppm. Drench of A-Rest 1-3 ppm, or drench of Bonzi 1-4 ppm.</td>
<td>Whitefly, thrips, leafminers, aphids, mites</td>
<td>Botrytis, Crown rot, Tobacco Mosaic Virus</td>
<td>Cool temperatures and high light reduce need for PGR. SuperCal Blue is high vigor. Artist Rose, Cherry and Neon Rose are medium vigor.</td>
<td></td>
</tr>
</tbody>
</table>

* ppp=plants per pot
** Perennial varieties that can be grown cold without treatment for Spring and Summer sales.

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<table>
<thead>
<tr>
<th>CROP</th>
<th>SERIES/VARIETY</th>
<th>SOIL PH</th>
<th>LIGHT LEVELS (FC)</th>
<th>TEMPERATURE DAY</th>
<th>TEMPERATURE NIGHT</th>
<th>FERTILIZATION (PPM N)</th>
<th>NO. OF PINCHES</th>
</tr>
</thead>
<tbody>
<tr>
<td>PETUNIA</td>
<td>Bee’s Knees</td>
<td>5.4-5.8</td>
<td>5,000-8,000</td>
<td>59-76°F (15-24°C)</td>
<td>53-61°F (12-16°C)</td>
<td>225-300</td>
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<tr>
<td>PETUNIA</td>
<td>Black Magic</td>
<td>5.4-5.9</td>
<td>5,000-8,000</td>
<td>65-76°F (18-24°C)</td>
<td>53-61°F (12-16°C)</td>
<td>225-300</td>
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<tr>
<td>PETUNIA</td>
<td>Bluerific</td>
<td>5.4-5.8</td>
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<tr>
<td>PETUNIA</td>
<td>NEW Burgundy Bliss, SureShot™</td>
<td>5.4-5.8</td>
<td>5,000-8,000</td>
<td>59-76°F (15-24°C)</td>
<td>53-61°F (12-16°C)</td>
<td>225-300</td>
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<tr>
<td>PETUNIA</td>
<td>CannonBall™, Phantom</td>
<td>5.4-5.8</td>
<td>5,000-8,000</td>
<td>59-76°F (15-24°C)</td>
<td>53-61°F (12-16°C)</td>
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<tr>
<td>PETUNIA</td>
<td>Cascadias™ Indian Summer</td>
<td>5.4-5.8</td>
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<td>59-76°F (15-24°C)</td>
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<tr>
<td>PETUNIA</td>
<td>ColorRush™</td>
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<td>59-76°F (15-24°C)</td>
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<tr>
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<tr>
<td>PETUNIA</td>
<td>Pinkceptional</td>
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<tr>
<td>PETUNIA (DOUBLE)</td>
<td>Vogue™</td>
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<td>PETUNIA (TRAILING)</td>
<td>Rhythm And Blues</td>
<td>5.8-6.2</td>
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<tr>
<td>PLANT GROWTH REGULATORS</td>
<td>PESTS</td>
<td>DISEASES</td>
<td>COMMENTS</td>
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<tr>
<td>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.</td>
<td>Whitefly, thrips, leafminers</td>
<td>Biotyris, Root rot, Tobacco Mosaic Virus</td>
<td>Cool temperatures and high light will reduce need for PGRs. Monitor regularly for high pH and possible iron deficiency.</td>
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<tr>
<td>Indian Summer</td>
<td>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.</td>
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<tr>
<td>SureShot™</td>
<td>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.</td>
<td>Whitefly, thrips, leafminers</td>
<td>Biotyris, Root rot, Tobacco Mosaic Virus</td>
<td>Cool temperatures and high light will reduce need for PGRs. Monitor regularly for high pH and possible iron deficiency.</td>
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</tbody>
</table>

**Annual Culture Guide**

**PESTs DISEASES COMMENTS**

*ppp=plants per pot
**Perennial varieties that can be grown cold without treatment for Spring and Summer sales.*
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<tr>
<td>PLECTRANTHUS</td>
<td>Mona Lavender</td>
<td>5.8-6.2</td>
<td>4,000-7,000</td>
<td>74-79°F (23-26°C)</td>
<td>59-64°F (15-18°C)</td>
<td>175-225</td>
<td>0-1</td>
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<tr>
<td>PLECTRANTHUS</td>
<td>Nico, Nicolleta, Variegata</td>
<td>5.8-6.2</td>
<td>5,000-8,000</td>
<td>71-79°F (22-26°C)</td>
<td>56-61°F (13-16°C)</td>
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<tr>
<td>PURSLANE</td>
<td>RioGrande™</td>
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<td>62-67°F (17-19°C)</td>
<td>225-300</td>
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<tr>
<td>SALVIA</td>
<td>Black &amp; Bloom, Black &amp; Blue, Purple &amp; Bloom, Roman Red</td>
<td>5.4-5.8</td>
<td>6,000-9,000</td>
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<td>59-64°F (15-18°C)</td>
<td>175-225</td>
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<tr>
<td>SALVIA</td>
<td>Blue Chill, Mystic Spires, Mysty, White Flame</td>
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<td>71-79°F (22-26°C)</td>
<td>62-67°F (17-19°C)</td>
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<td>SALVIA</td>
<td>NEW Plum Crazy</td>
<td>5.4-5.8</td>
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<td>Blue Brilliance, Blue Fan, Bondi™, White Sparkle</td>
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<td>74-79°F (23-26°C)</td>
<td>59-64°F (15-18°C)</td>
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<td>STROBLANTHERS</td>
<td>Persian Shield</td>
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<td>175-225</td>
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<td>TECOMA</td>
<td>NEW Kalama™</td>
<td>5.8-6.2</td>
<td>4,000-6,000</td>
<td>70-75°F (21-24°C)</td>
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<tr>
<td>THUNBERGIA</td>
<td>Sunny™</td>
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<td>71-85°F (22-29°C)</td>
<td>59-64°F (15-18°C)</td>
<td>175-225</td>
<td>1-3</td>
</tr>
<tr>
<td>TORENIAS</td>
<td>Summer Wave®</td>
<td>5.8-6.2</td>
<td>5,000-8,000</td>
<td>71-79°F (22-26°C)</td>
<td>59-64°F (15-18°C)</td>
<td>175-225</td>
<td>1-2</td>
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<tr>
<td>VERBENA</td>
<td>Cadet Upright™</td>
<td>5.8-6.2</td>
<td>5,000-8,000</td>
<td>71-79°F (22-26°C)</td>
<td>62-64°F (17-18°C)</td>
<td>225-300</td>
<td>1-2</td>
</tr>
<tr>
<td>VERBENA</td>
<td>EnduraScape™</td>
<td>5.8-6.2</td>
<td>5,000-8,000</td>
<td>71-79°F (22-26°C)</td>
<td>62-64°F (17-18°C)</td>
<td>225-300</td>
<td>1-2</td>
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<tr>
<td>VERBENA</td>
<td>Firehouse™</td>
<td>5.8-6.2</td>
<td>5,000-8,000</td>
<td>71-79°F (22-26°C)</td>
<td>62-64°F (17-18°C)</td>
<td>225-300</td>
<td>1-2</td>
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<tr>
<td>VERBENA</td>
<td>NEW Burgundy Wink Improved, Violet Wink</td>
<td>5.8-6.2</td>
<td>5,000-8,000</td>
<td>71-79°F (22-26°C)</td>
<td>62-64°F (17-18°C)</td>
<td>225-300</td>
<td>1-2</td>
</tr>
<tr>
<td>4 TO 5-IN.</td>
<td>6-IN. (15-CM)</td>
<td>10 TO 12-IN.</td>
<td>PLANT GROWTH REGULATORS</td>
<td>PESTS</td>
<td>DISEASES</td>
<td>COMMENTS</td>
<td></td>
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<tr>
<td>(10 TO 13-CM)</td>
<td>POTS, GALLONS</td>
<td>(20 TO 30-CM)</td>
<td>(S) SPRAY (D) DRENCH</td>
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<tr>
<td><strong>PESTS</strong></td>
<td><strong>DISEASES</strong></td>
<td><strong>COMMENTS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>1 ppm, 6-8 weeks</td>
<td>1-2 ppm, 7-9 weeks</td>
<td>3-5 ppm, 9-12 weeks</td>
<td>B-Nine 1,500-2,500 ppm and Cycocel 750-1,000 ppm tank mix(S) or Bonzi(3) 5-20 ppm applied as needed is effective.</td>
<td>Whitefly, worms</td>
<td>Root rot</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>1 ppm, 6-8 weeks</td>
<td>1-3 ppm, 7-10 weeks</td>
<td>3-5 ppm, 9-12 weeks</td>
<td>Generally not needed.</td>
<td>Whitefly</td>
<td>Botrytis, Rhizoctonia</td>
<td>Regularly allow the media to dry between waterings. Pinch regularly to improve habit.</td>
<td></td>
</tr>
<tr>
<td>1-2 ppm, 5-6 weeks</td>
<td>2-3 ppm, 6-8 weeks</td>
<td>3-5 ppm, 9-12 weeks</td>
<td>Generally not needed.</td>
<td>Whitefly</td>
<td>Root rot</td>
<td>Regularly allow the media to dry moderately between waterings, especially in cool periods. Regular pinching and constant feeding will improve habit and flowering.</td>
<td></td>
</tr>
<tr>
<td>1 ppm, 7-9 weeks</td>
<td>1-2 ppm, 8-10 weeks</td>
<td>2-3 ppm, 10-12 weeks</td>
<td>A B-Nine 2,000-3,500 ppm and Cycocel 1,000-1,500 ppm tank mix(S) will help control height.</td>
<td>Whitefly, fungus gnats, thrips</td>
<td>Botrytis, Pythium, Rhizoctonia</td>
<td>Regularly allow the media to dry between waterings, particularly during cool periods. Prefers warm conditions to ensure early flowering.</td>
<td></td>
</tr>
<tr>
<td>1 ppm, 4-6 weeks</td>
<td>2-3 ppm, 6-10 weeks</td>
<td>4-5 ppm, 8-12 weeks</td>
<td>Responsive to B-Nine 2,500-3,000 ppm. Increase rates as days lengthen in late Spring and Summer.</td>
<td>Whitefly</td>
<td>None</td>
<td>Regularly allow the media to dry moderately between waterings, especially in cool periods. Proper pinching and moderate feeding will improve habit and flowering.</td>
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<tr>
<td>1 ppm, 8-10 weeks</td>
<td>2-3 ppm, 10-12 weeks</td>
<td>Generally not needed. Bonzi(D) 1-3 ppm or Bonzi(S) 40-40 ppm will control growth.</td>
<td>Whitefly, fungus gnats, thrips</td>
<td>Botrytis, Pythium, Rhizoctonia</td>
<td>Pinch two weeks after transplant. Plants should dry between watering. PGR is recommended for regions with high light levels and high temperatures.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 ppm, 5-7 weeks</td>
<td>1-2 ppm, 7-8 weeks</td>
<td>3-5 ppm, 10-12 weeks</td>
<td>Generally not needed.</td>
<td>Whitefly</td>
<td>Root rot</td>
<td>Moderate light levels produce more colorful foliage. Pinch early to shape. Feed regularly to maintain growth.</td>
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<tr>
<td>1 ppm, 8-10 weeks</td>
<td>1-2 ppm, 10-12 weeks</td>
<td>2-3 ppm, 12-14 weeks</td>
<td>Generally not needed.</td>
<td>Whitefly, spider mites, thrips, aphids</td>
<td>Pythium, Leaf spot</td>
<td>Using fertilizers with low phosphorus during early stages will aid in minimizing stretching. Growth regulators may not be necessary if plants are allowed to dry down moderately before watering.</td>
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<tr>
<td>1 ppm, 6-8 weeks</td>
<td>1-2 ppm, 7-8 weeks</td>
<td>4-5 ppm, 10-12 weeks</td>
<td>Generally not needed.</td>
<td>Mites, whitefly, thrips, aphids</td>
<td>Botrytis</td>
<td>Pinch two weeks after transplant and use a trellis for the plant to climb up. Thunbergia is a warm-season crop that prefers night temperatures above 60°F (15°C). Pinch regularly to shape.</td>
<td></td>
</tr>
<tr>
<td>1 ppm, 5-7 weeks</td>
<td>1-3 ppm, 6-8 weeks</td>
<td>3-5 ppm, 8-11 weeks</td>
<td>Generally not needed.</td>
<td>Whitefly, spider mites, thrips</td>
<td>Botrytis</td>
<td>Torenia is a warm-season crop that prefers night temperatures above 60°F (15°C). Pinch regularly to shape.</td>
<td></td>
</tr>
<tr>
<td>1 ppm, 5-7 weeks</td>
<td>1-3 ppm, 7-8 weeks</td>
<td>4-5 ppm, 10-13 weeks</td>
<td>Generally not needed. Bonzi(D) at 1-3 ppm two to four weeks after transplant will tone finished growth when grown warm in the greenhouse. Cool night temperature during production cycle promotes tight habits.</td>
<td>Whitefly, leafminers, aphids</td>
<td>Root rot</td>
<td>Regularly allow plants to dry between irrigation.</td>
<td></td>
</tr>
<tr>
<td>1 ppm, 5-7 weeks</td>
<td>1-3 ppm, 7-8 weeks</td>
<td>4-5 ppm, 10-13 weeks</td>
<td>Responsive to a B-Nine 2,500-3,500 ppm/Cycocel 750-1,000 ppm tank mix(S) and Floret(S) 250-300 ppm to control growth and improve plant habit.</td>
<td>Whitefly, leafminers, aphids</td>
<td>Root rot</td>
<td>Regularly allow plants to dry between waterings. Pinch as needed to shape. EnduraScape varieties may require more PGR use under normal conditions.</td>
<td></td>
</tr>
<tr>
<td>1 ppm, 5-7 weeks</td>
<td>1-3 ppm, 7-8 weeks</td>
<td>4-5 ppm, 10-13 weeks</td>
<td>Responsive to a B-Nine 2,500-3,500 ppm/Cycocel 750-1,000 ppm tank mix(S) and Floret(S) 250-300 ppm to control growth and improve plant habit.</td>
<td>Whitefly, leafminers, aphids</td>
<td>Root rot</td>
<td>Regularly allow plants to dry between irrigation. Pinch as needed to shape.</td>
<td></td>
</tr>
</tbody>
</table>

* ppm=plants per pot

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

No cancellations within:

• 2 weeks of ship date for unrooted cuttings
• 4 weeks of ship date for rooted cuttings

For more information, please contact Ball Images Archive Library at 630 231-3600 or photoarchive@ballhort.com.
**Terms & Conditions of Sale**

Visit ballfloraplant.com for current Terms & Conditions of Sale.

**ACCEPTANCE OF TERMS**
These terms and conditions shall govern orders for plants (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, with recognized tolerances. SELLER MAKES NO OTHER OR FURTHER WARRANTY, EXPRESS OR IMPLIED. ALL OTHER OR FURTHER WARRANTIES, INCLUDING ANY WARRANTIES OF MERCHANTABILITY, TITLE, NON-INFRINGEMENT AND 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, and Seller shall have no liability thereunder. Seller shall have no liability thereunder.

**LIMINTATION 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.

**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 plants 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 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 & Conditions of Sale.

**MINIMUM ORDERS**
The minimum quantity for each order is 500 unrooted cuttings. Total orders less than 2,000 unrooted cuttings will be subject to a minimum charge of $30.

**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.

**PAYMENT**
Payment is due in invoiced currency and 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, DECLINED EFT TRANSACTION OR DECLINED BANKCARD TRANSACTION.

If paying by Pre-Authorized Debit (PAD), or EFT, please note you have waived your right to receive pre-notification of the amount of the PAD and agreed that you do not require advance notice of the amount of PADs before the debit is processed.

**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 above 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 due to weather related issues 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. Damaged unrooted cuttings will be replaced by Ball FloraPlant. Damaged rooted cuttings will be replaced by Ball Seed.

**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 stock or sow date.

**NOTICE & RETURN**
No returns will be accepted. Seller shall have no liability for any defect unless notice is given promptly, not to exceed five (5) days after receipt of delivery of merchandise. Notice of defect should be addressed to Ball at 800 879-BALL.

**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 covered by the Flowering-Only Terms and Conditions of Sale Agreement, United States Plant Patents, United States Plant Variety Protection, Utility Patents, and Plant Breeders’ Rights. These rights may not be reproduced without authorization. The breeder or authorized representative has the right to inspect Purchasers’ nurseries during normal business hours to assess compliance with the restrictions on use of protected varieties.

**TRADEMARKS**
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EXPORT CONTROL. THE COMPANY’S PRODUCTS MAY NOT BE SOLD, DIVERTED, TRANSFERRED OR RE-EXPORTED, DIRECTLY OR INDIRECTLY, TO ANY INDIVIDUAL, ENTITY, OR DESTINATION THAT IS SUBJECT TO UNITED STATES OR UNITED NATIONS SANCTIONS PROGRAMS OR EMBARGOES (INCLUDING BUT NOT LIMITED TO OFAC SANCTIONS PROGRAMS AND THOSE LISTED ON OFAC’S “SPECIALLY DESIGNATED NATIONALS” LIST) WITHOUT AN APPROPRIATE EXPORT LICENSE.

**FOREIGN CORRUPT PRACTICES ACT.** EACH PARTY REPRESENTS AND WARRANTS TO THE OTHER PARTY THAT IT WILL TAKE NO ACTION IN RELATION TO THIS TRANSACTION THAT WOULD BE IN VIOLATION OF THE APPLICABLE LAWS AND REGULATIONS OF ANY COUNTRY AND THE UNITED STATES OF AMERICA. NO PAYMENTS OF MONEY OR ANYTHING OF VALUE WILL BE OFFERED, PROMISED OR PAID, DIRECTLY OR INDIRECTLY, TO ANY OFFICIALS TO INFLUENCE THE ACTS OF SUCH OFFICIALS TO INDUCE THEM TO USE THEIR INFLUENCE WITH A GOVERNMENT OR AN INSTRUMENTALITY THEREOF, OR TO OBTAIN AN IMPROPER ADVANTAGE.
## Discontinued Ball FloraPlant Varieties for 2024

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<thead>
<tr>
<th>VARIETY</th>
<th>RECOMMENDED REPLACEMENT</th>
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<td>Bacopa MegaCopa™ Pink</td>
<td>Bacopa MegaCopa™ Pink Improved</td>
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<tr>
<td>Bacopa MegaCopa™ Pink Shine</td>
<td>Bacopa MegaCopa™ Pink Improved</td>
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<tr>
<td>Bacopa MegaCopa™ Sky Blue</td>
<td>Bacopa MegaCopa™ Lavender</td>
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<td>Bidens Bee Alive</td>
<td>Bidens Bee Alive Improved</td>
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<td>Coleus French Quarter</td>
<td>Coleus Volcanica™ French Quarter Improved</td>
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<td>Geranium Galaxy™ Dark Red</td>
<td>Geranium Galaxy™ Dark Red Improved</td>
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<tr>
<td>Lantana Bloomify™ Pink</td>
<td>Lantana Bloomify™ Pink Improved</td>
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<tr>
<td>Lantana Lucky™ Yellow</td>
<td>Lantana Lucky™ Yellow Improved</td>
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<td>Lantana Shamrock™ Orange Flame</td>
<td>Lantana Shamrock™ Orange Flame Improved</td>
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<td>Lobelia Early Springs™ Lavender Pink</td>
<td>Lobelia Early Springs™ Lavender</td>
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<td>Lobelia Waterfall™ Blue</td>
<td>Lobelia Waterfall™ Dark Blue</td>
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<tr>
<td>Osteospermum Serenity™ White</td>
<td>Osteospermum Serenity™ White Improved</td>
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<tr>
<td>Petchoa SuperCal® Premium Caramel Yellow</td>
<td>Petchoa SuperCal® Premium Yellow Sun</td>
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<tr>
<td>Petchoa SuperCal® Premium Bonfire Mix</td>
<td>Petchoa SuperCal® Premium Citrus Mix</td>
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<td>Petunia Cha-Ching Cherry</td>
<td>Petunia Slingshot™ Lemonberry</td>
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<td>Verbena Cadet Upright™ Magenta Wink</td>
<td>Verbena Cadet Upright™ Hot Pink Wink</td>
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<td>Verbena Burgundy Wink</td>
<td>Verbena Burgundy Wink Improved</td>
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<td>MixMasters™ Berry Basket</td>
<td>MixMasters™ Berry Basket Improved</td>
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<tr>
<td>MixMasters™ Fruit Cocktail</td>
<td>MixMasters™ Fruit Cocktail Improved</td>
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<tr>
<td>MixMasters™ Over The Top 23</td>
<td>MixMasters™ Over The Top Improved</td>
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<tr>
<td>MixMasters™ Porch Patriot</td>
<td>MixMasters™ Porch Patriot Improved</td>
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Ball Seed: 800 879-BALL
Ball ColorLink®: 800 686-7380

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