Growing Better Together

At Ball FloraPlant, our goal is to bring innovative solutions and the most reliable, high-quality cuttings to the North American market. This is important now more than ever, to ensure you continue to maintain and grow a successful business.

Reliability. We know that in this time of uncertainty with freight challenges and the health and safety of our employees, reliable supply is essential. You can count on our farms at Las Limas, Nicaragua and Floricultura, Guatemala, to provide the highest-quality unrooted vegetative annuals where and when you need them. In addition, we have a strong network of rooted cutting supply partners strategically located to deliver consistent, high-quality liners to your doorstep on time.

Innovation. We are excited to bring innovative new varieties such as our recent award-winning Bee’s Knees Petunia and the versatile NEW Shamrock Lantana. Ball FloraPlant encourages you to try some of our novelty genetics like our NEW Spitfire Micro Coleus. All of our products are trialed in multiple locations in containers and in the landscape to meet our expectations and yours to ensure growing success.

Information. You can rely on us to provide the in-depth growing, programming, trialing and technical expertise you’re looking for to help you grow your best. Visit ballfloraplant.com for online resources, culture, how-to videos and product training.

Resilience. Through our partnership with Ball Seed®, we provide the ease of doing business that you’ve come to expect. Our Ball Seed sales representatives are available to find custom solutions to all your growing needs. With the WebTrack® online ordering system, and the revamped Ball TECH ON DEMAND at growertalks.com/TechOnDemand, we can provide an easy process for getting business done, no matter what the future holds.

We look forward to partnering with you to help make this your most successful growing season ever.

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

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

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

GROWER’S CHOICE:
Indicates varieties within a series that share uniform timing and habit.

EARLY FLOWERING TIME

SUN EXPOSURE
- Full Sun (6+ hours of direct sunlight)
- Full Shade (6+ hours of shade)
- Sun/Shade (less than 4 hours of sun)
Shamrock™ Rose Lantana

NEW Shamrock™ is the latest to join our Lantana collection. This series is versatile, has a mounded habit and is excellent in containers and hanging baskets. (Page 94)

CannonBall™ Red Petunia

Our showy NEW CannonBall™ Petunia series has a compact habit perfect for eye-popping pots and combos. (Page 116)
Fantasia® Shocking Blue Geranium

The dark foliage of Fantasia® Zonal Geraniums is a dazzling contrast against our newest variety—Shocking Blue! This one offers a truer blue than the competition. (Page 65)

Spitfire™ Micro Coleus

Don’t miss out on the latest introductions in our coleus collection. We have four striking new additions, including a micro coleus named Spitfire. As the first of this kind in our assortment, Spitfire is great for urban gardeners’ balconies and small patios! (Page 53)
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 consist of our own trial locations and 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.

TRIAL SITES:

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

Floriculturna 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.

**MPS-A Certified**
All of our farms qualify under MPS-A (Milieu Programma Sierbiet or “Environmental Programme Floriculture”) environmental certification, based on responsible usage of crop protection agents, fertilizers, energy and waste.

**MPS-GAP Certified**
Through MPS-GAP certification, Las Limas is able to promote the “Good Agricultural Practices” of our farm by providing a transparent look at traceability, environment, worker safety and site cleanliness that benefit suppliers and customers.
all you need, direct to you

ROOTED SUPPLY

We provide on-time delivery at the highest quality and in full. Count on our reliable, consistent supply network to provide:

• accurate inventory
• timely order confirmations and shipment tracking
• priority service on shortages and substitutions
• 99% of our liner orders are filled on time
• and over 90% of Ball Seed liner orders are 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 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, SG, MM)
Fessler Nursery
Woodburn (GE, 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

FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL
Becky Lacy
Product Manager

“Our mixes start with the best color selection and end with following proper culture guidelines.

Check out this year’s Bee’s Knees Petunia combo the NEW Great Escape — just one of the simply irresistible mixes with an outstanding yellow component! And don’t forget the NEW Diva La Vida, featuring the hottest colors from the Cha-Cha Calibrachoa series.”

Guidelines for trialing include:

Regionality: Where will the combo grow well, or will it work nationally?

Timing: The varieties must flower together in the beginning, and go out together at the end of Summer.

Vigor: The recipe as a whole is taken into consideration, so that one or two components won’t overgrow.

Seasonality: Daylength neutrality is important in all of our breeding.

Longevity at retail: All MixMasters combos must provide continuous blooming on retail shelves and on into the consumer’s garden after purchase.
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Find growing information at BALLFLORAPLANT.COM or order at BALLSEED.COM/WEBTRACK or 800 879-BALL
SUN
COMBOS
(Multi-Species)

A Grape Fit! Improved
Calibrachoa Cabaret Neon Rose
NEW Petunia CannonBall Rose Vein
Verbena Firehouse Purple

Bejeweled Improved
Calibrachoa Cabaret Golden Yellow
NEW Petunia CannonBall Burgundy
Verbena Firehouse Purple

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

Biden My Time
Bidens Bee Happy Red
Calibrachoa Cabaret Golden Yellow
Verbena Firehouse Red

Big Flirt
Petchoa SuperCal Pink Ice
Petunia ColorRush Blue
Verbena EnduraScape Pink Bicolor

Color Magic
Calibrachoa Cabaret Golden Yellow
Lobelia Early Springs Dark Blue
Verbena Firehouse Red

Eye Caramba
Calibrachoa Cabaret White
Petunia ColorBlitz Bluerific
Verbena Violet Wink
SUN COMBOS (Multi-Species) | MixMasters | MULTILINERS

Biden My Time

Big Flirt

Color Magic

Eye Caramba

Find growing information at BALLFLORAPLANT.COM or order at BALLSEED.COM/WEBTRACK or 800 879-BALL
**SUN COMBOS**  
(Multi-Species)

**Fashionista Improved**
Lobelia Early Springs Dark Blue  
NEW Petunia CannonBall Burgundy  
Verbena MixMasters Hot Pink

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

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

**Heartland Improved**
Lobelia Early Springs Sky Blue  
NEW Petunia CannonBall White  
Verbena Firehouse Red
SUN COMBOS (Multi-Species) | MixMasters | MULTILINERS

SUN COMBOS (Multi-Species)

Hot Rod
- Calibrachoa Cabaret Bright White
- Calibrachoa Cabaret Red
- Coleus FlameThrower Chili Pepper

I Heart Pink Improved
- Calibrachoa Cabaret Light Pink
- NEW Petunia CannonBall Pink
- Verbena MixMasters Hot Pink

Jazzberry Jam Improved
- Calibrachoa Cabaret White
- NEW Petunia CannonBall Burgundy
- Verbena Firehouse Purple

Kiss Me Good Night Improved
- NEW Bidens Sun Drop Improved
- Calibrachoa Cabaret Good Night Kiss
- Verbena Firehouse Purple

Find growing information at BALLFLORAPLANT.COM or order at BALLSEED.COM/WEBTRACK or 800 879-BALL
**SUN COMBOS**  
(Multi-Species)

- **Mambo Improved**
- NEW Bidens Sun Drop Improved
- Calibrachoa Cabaret Orange
- NEW Petunia CannonBall Pink
- **Over the Top Improved**
- Calibrachoa Cabaret Golden Yellow
- NEW Petunia CannonBall Blue
- Verbena Burgundy Wink
- **Paradise Sunrise Improved**
- Calibrachoa Cabaret Golden Yellow
- Petunia ColorBlitz Pinkceptional
- NEW Verbena Firehouse White Improved
- **Peach of My Heart**
- Calibrachoa Cabaret Deep Yellow
- Impatiens SunPatiens Compact Orange
- Verbena EnduraScape Blue
SUN COMBOS (Multi-Species) | MixMasters | MULTILINERS

Rosé Everyday Improved
Bacopa MegaCopa White
Calibrachoa Cabaret Pink
NEW Petunia CannonBall Pink
Santa Fe Sunset Improved
NEW Bidens Sun Drop Improved
Calibrachoa Cabaret Orange
Verbena Firehouse Purple
Shoot the Breeze
Calibrachoa Cabaret Light Pink
Calibrachoa Cabaret Midnight Blue
Lobularia Easy Breezy White
Sunnyside Improved
Calibrachoa Cabaret Golden Yellow
Petunia Bee’s Knees
NEW Verbena Firehouse White Improved

Find growing information at BALLFLORAPLANT.COM or order at BALLSEED.COM/WEBTRACK or 800 879-BALL
SUN COMBOS (Mono-Species)

**Cherry Plum Tart**
- Calibrachoa Cabaret Bright Red
- Calibrachoa Cabaret Deep Blue
- Calibrachoa Cabaret Hot Pink

**NEW Diva La Vida**
- Calibrachoa Cha-Cha Deep Blue
- Calibrachoa Cha-Cha Diva Hot Pink

**Fruit Cocktail**
- Calibrachoa Cabaret Deep Yellow
- Calibrachoa Cabaret Hot Pink
- Calibrachoa Cabaret Orange

**Laguna Beach Improved**
- **NEW Calibrachoa Cabaret Lavender Improved**
- Calibrachoa Cabaret Orange
- Calibrachoa Cabaret Red

**Panorama**
- Calibrachoa Cabaret Purple
- Calibrachoa Cabaret Rose
- Calibrachoa Cabaret White

**Playdate**
- Calibrachoa Cabaret Deep Yellow
- Calibrachoa Cabaret Purple
- Calibrachoa Cabaret Rose

CHA-CHA & CABARET
MULTILINERS | MixMasters | SUN COMBOS (Mono-Species)

Fruit Cocktail

Laguna Beach Improved

Panorama

Playdate

Find growing information at BALLFLORAPLANT.COM or order at BALLSEED.COM/WEBTRACK or 800 879-BALL
SUN COMBOS (Mono-Species)

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

**Spring Showers Improved**
- NEW Calibrachoa Cabaret Lavender Improved
- NEW Calibrachoa Cabaret Lemon Yellow Improved
- Calibrachoa Cabaret Light Pink

**Sprinkles On Top**
- Calibrachoa Cabaret Bright Red
- Calibrachoa Cabaret Deep Blue
- Calibrachoa Cabaret Deep Yellow
SUN
COMBOS
(Mono-Species)

**Sundance**
- Calibrachoa Cabaret Deep Blue
- Calibrachoa Cabaret Deep Yellow
- Calibrachoa Cabaret Hot Pink

**Sweet Melody**
- Calibrachoa Cabaret Light Pink
- Calibrachoa Cabaret Midnight Blue
- Calibrachoa Cabaret Neon Rose

**Tea Party Improved**
- NEW Calibrachoa Cabaret
- Lemon Yellow Improved
- Calibrachoa Cabaret Pink Star

**Tropicali**
- Calibrachoa Cabaret Bright Red
- Calibrachoa Cabaret Deep Yellow
- Calibrachoa Cabaret Orange
**SUN COMBOS**
(Mono-Species)

**NEW Oh Beehave!**
Petunia Bee’s Knees
Petunia Midnight Gold

**Rush Hour**
Petunia ColorRush Pink
Petunia ColorRush Pink Vein

**Tart Deco**
Petunia ColorRush Blue
Petunia ColorRush Pink

**NEW Touch Of Sugar**
Petunia ColorRush Pink
Petunia ColorRush White
SUN COMBOS (Mono-Species)

Love Me Tender
- Calibrachoa Conga Deep Yellow
- Calibrachoa Conga Rose Kiss

Rainbow Bright
- Calibrachoa Conga Dark Blue
- Calibrachoa Conga Deep Yellow
- Calibrachoa Conga Rose

Sunshine State
- Calibrachoa Conga Deep Yellow
- Calibrachoa Conga Sunset Kiss

Summer Cocktail
- Calibrachoa Conga Dark Blue
- Calibrachoa Conga Deep Yellow
- Calibrachoa Conga Orange Kiss
HEAT-LOVING COMBOS

**Bloom of Allegiance**
- Angelonia AngelMist Spreading White
- Lantana Lucky Red
- Scaevola Blue Brilliance

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

**Lucky Charm**
- Lantana Lucky Flame
- Lantana Lucky Pot Of Gold
- Lantana Lucky Sunrise Rose

**NEW Patriotic Heart**
- **NEW** Angelonia AngelMist Spreading Dark Purple Improved
  - Angelonia AngelMist Spreading White
  - Angelonia Archangel Cherry Red

**Porch Patriot**
- Angelonia Archangel Raspberry
- Lantana Lucky Yellow
- Scaevola Blue Brilliance
Patriotic Heart

Porch Patriot
HEAT-LOVING COMBOS

**Retro Summer**
- Portulaca Río Grande Orange
- Portulaca Río Grande Scarlet
- Portulaca Río Grande Yellow

**Shindig**
- Angelonia Archangel Dark Purple
- Lantana Lucky Red
- Scaevola Blue Brilliance
SUN & SHADE COMBOS

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

Pico de Gallo
- Coleus FlameThrower Salsa Roja
- Coleus FlameThrower Salsa Verde
- Coleus FlameThrower Serrano

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

5 Alarm Chili

Pico de Gallo

The Whole Enchilada
Archangel™
Heat-loving flowers with the biggest blooms

Top Left: MixMasters Gold Plated featuring Blue Bicolor, Lucky Pot Of Gold Lantana and White Sparkle Scaevola
Top Right: Raspberry
Bottom Right: Dark Purple
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 Purple Improved:** Earlier to flower, with more flower power and better branching, along with a more saturated purple color.

**ANGELONIA**

*Angelonia angustifolia*

**FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL**
ANGELONIA

AngelMist® Spreading
Super-spreading display in baskets and landscapes

Top Left: Berry Sparkler
Top Right: White
Bottom: Bluebird
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.

NEW Dark Purple Improved: Features a bigger flower size and better, more intense purple color.

NEW Pink Improved: Features a more saturated pink color with larger flowers.

FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL
ANGELONIA

NEW Angelissa™

Angelonna angustifolia

NEW 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.

NEW Purple
NEW Rose
NEW White

ANGELISSA is a registered trademark of Sakata.

ALTERNANTHERA

Alternanthera ficoidea

‘Red Threads’

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

NEW

BRACHYSCOME

Brachyscome hybrida

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.

BRASCO is a U.S. trademark of Danziger Flower Farm.

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.

BRASCO is a U.S. trademark of Danziger Flower Farm.
**BIDENS**

*Bidens ferulifolia*

**Bee Happy™**

**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.

---

Our bidens are grouped by vigor to assist in variety selection.

- **VIGOROUS**
  - Bee Bold
  - Sunbeam

- **MEDIUM**
  - Bee Happy
  - Red & Orange
  - NEW Sun Drop Improved
  - Sun Drop Double

- **COMPACT**
  - Bee Alive
  - Sun Drop Compact
  - Sun Drop Compact Double
BIDENS

Bee Alive & Bee Bold

Gorgeous color fills large and small pots

'Bee Alive'

**Bidens ferulifolia**

- **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.

Exciting novelty color and pattern for Spring and Fall. Great color that can be produced during the heat of Summer for Fall sales – also works in Fall mixed combos!

Flowers attract pollinators, like bees and butterflies.

'Bee Bold'

**Bidens ferulifolia**

- **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 Compact Double
Height: 8 to 10 in. (20 to 25 cm)
Spread: 12 in. (30 cm)
Smaller version of Sun Drop Double. 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 Improved. Perfect for small pot production and plays nice in mixed containers. Also, best for the southern region.

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.

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

NEW Sun Drop Improved
Height: 12 to 18 in. (30 to 46 cm)
Spread: 12 in. (30 cm)
Top-selling bidens has been upgraded for 20% larger flowers and less pronounced bloom “shrink” in Summer, providing larger blooms into the Summer months. Features a deeper yellow color. Works well in mixed baskets and patio containers. Habit is more mounded, giving it great appeal when alone in a container.
BACOPA

Versa™

More upright, less tangling, better sell-through

Top: White
Bottom Left: Blue
Bottom Right: Pink Shine
**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 sutera 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.

---

**Blue**

**Pink Shine**

**White**

---

FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL
MegaCopa™
Blockbuster blooms power through the heat

Top: White
Bottom: Blue
BACOPA

Sutera cordata

MegaCopa™

Height: 4 to 6 in. (10 to 15 cm)
Spread: 12 to 18 in. (30 to 46 cm)

This series of bacopa is notable for its well-branched habits, large flowers and improved heat performance.

Controlled habit is grower-friendly and offers better centerfill than other bacopa.

Largest flower size in the industry, with showy blooms that cover the plant, driving impulse sales at retail.

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

FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL
Dreamtime®

Impressive displays make for early-season sales

**BRACTEANTHA**

_Bracteantha bracteatum_

**Dreamtime**

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.
CALIBRACHOA

Conga™

Easy growing for compact color bowls

Our calibrachoa are grouped by vigor to assist in variety selection.

Top: White and Rose
Bottom Left: MixMasters Rainbow Bright featuring Dark Blue, Deep Yellow and Rose
Bottom Right: MixMasters Summer Cocktail featuring Dark Blue, Deep Yellow, Orange Kiss
**CALIBRACHOA**

**CALIBRACHOA hybrida**

**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.

**NEW Cherry:** Offers larger flowers than others in the series.

**NEW Lavender:** Features excellent branching for a fuller plant with more blooms. Upright, mounded habit is a great fit for the series.

**NEW Red Improved:** Lower vigor to better fit the series and doesn’t need PGRs! Easy to mix in combos with the rest of the series.

---

**Images:**

- Cherry
- Lavender
- Red Improved
- Light Pink Star
- Pink Star
- Orange Kiss
- Pink
- Rose Kiss
- Rose
- Sunset Kiss
- Deep Yellow
- White
Cabaret®

Left: Good Night Kiss
Bottom: NEW MixMasters Jazzberry Jam Improved featuring White, NEW CannonBall Burgundy Petunia and Firehouse Purple Verbena

CALIBRACHOA
Calibrachoa hybrida

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 genetics with the timer icon on the next page flower early when produced for target production weeks prior to Week 14.

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

NEW Lavender Improved: Offers an improved habit and branching, with better color and disease resistance.

NEW Lemon Yellow Improved: Features improved disease resistance, plus better branching for more flowers, faster pot fill and a fuller plant.
CALIBRACHOA

FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL
Cha-Cha™
A uniform series with dazzling, novelty colors

Laura Masor
Breeder
“The selections I made for Cha-Cha 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 really well with each other. Just check out NEW MixMasters Diva La Vida with its spectacular blend of colors, including a novelty from the series!”

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

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

Diva Apricot
Frosty Lemon

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 two color-shifting types!

Diva Hot Pink is a 2020 University of Georgia Plants of Distinction award winner.
NEW MixMasters Diva La Vida featuring Deep Blue and Diva Hot Pink

NEW MixMasters Great Escape featuring Diva Hot Pink, Bee’s Knees Petunia and Firehouse Burgundy Verbena

FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL
CALIBRACHOA

**Calibrachoa hybrida**

**Bumble Bee™ Calibrachoa**

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

**NEW 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™ 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™ 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.
Terracotta

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

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

Abundant blooms with a one-of-a-kind pattern. Well-suited for 6-in. (15-cm) pots up to large hanging baskets.

---

**FIND GROWING INFORMATION AT** [BALLFLORAPLANT.COM](http://BALLFLORAPLANT.COM) **OR ORDER AT** [BALLSEED.COM/WEBTRACK](http://BALLSEED.COM/WEBTRACK) **OR** 800 879-BALL
Coleus

Colossal color and eye-popping patterns

**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.

Our premium coleus is grouped by vigor to assist in variety selection.

- **French Quarter**
- **Redhead**
- **Trusty Rusty**
- **Vino**
- **Wasabi**
- **Campfire**
- **Coleosaurus**
- **Dragon Heart**
- **Electric Lime®**
- **Henna**
- **Indian Summer**
- **Inferno**
- **NEW Limewire**
- **Pinkplosion**
- **NEW Vulcan**
- **NEW Copperhead**
- **Heartbreaker**
- **Ruby Punch**
- **Ruby Slipper**
- **Special Effects**
- **NEW Spitfire**

**Top: Dragon Heart**
**Bottom: Redhead**

*SUN AND SHADE*
French Quarter
Height: 18 to 36 in. (46 to 91 cm)
Spread: 24 to 28 in. (61 to 71 cm)
Adds depth to coleus programs with the addition of a pink. Features pink, magenta and green leaves. Familiar pattern of seed coleus, but more vigorous and much later-flowering.

Redhead
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.

Trusty Rusty
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-leafed and vigorous. Ships well as unrooted cuttings and liners.

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, medium 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

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)
Controlled, well-branched habit is easy to produce in small containers and requires little pinching. Similar in vigor to Redhead and Henna.

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.
MEDIUM COLEUS

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)
Multicolor earthtones 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.

NEW 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.

Pinkplosion
Height: 14 to 28 in. (36 to 71 cm)
Spread: 14 to 24 in. (36 to 61 cm)
Retains its pink coloration longer into the Summer. The serrated leaf edge brings out the contrast in the bicolor foliage. Flowers 1 to 2 weeks earlier than the rest of Ball FloraPlant’s coleus varieties. Vigorous habit matches Inferno and Campfire on the medium-vigor end of the assortment.

NEW 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.
COLEUS 
Solenostemon scutellarioides

NEW 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. Vigor is closest to Heartbreaker.

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 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.
**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.

**NEW Spitfire**

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

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

Compact, micro coleus is the first of its kind in our assortment! 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. It is 50% more compact than FlameThrower™*, even when in the landscape. Versatile for use in combos, containers and landscape borders, and great for urban gardeners’ balconies or small patios. No other micro coleus has such vibrant pink and lime green coloring with this unique leaf shape.

---

FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL
FlameThrower™
Create sparks in small pots and mixes

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
COLEUS

Solenostemon hybrid

FlameThrower™

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

Compact-to-medium coleus is perfect for quarts and mixed containers.

Bold foliage colors in a compact habit make this striking coleus ideal for small pots and mixed containers.

Its uniquely colored and shaped leaves add texture in the garden and containers.

FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL
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.

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.
CUPHEA

Cuphea hybrid

Honeybells

Height: 10 to 12 in. (25 to 30 cm)
Spread: 14 to 20 in. (36 to 51 cm)

Honeybells roots faster than the competition, reducing your costs and production time. Able to be produced at lower temperatures, it can also decrease the overall cost of Spring greenhouse production. Likewise, Honeybells requires less special treatment because of its high resistance to Oedema.

A 2019 University of Georgia Plants of Distinction award winner.

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.

FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL
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.
**EUPHORBIA**

*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.

---

**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.
Direct-stick Callused Cutting

Benefit from a shorter crop time

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 Rep 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 p. 61 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 in as few as 6 weeks!

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**

On arrival

3 weeks after direct-stick

At 6 weeks, the same high-quality plants and equal finish timing as the rooted liner

**Traditional Unrooted Liner**

Start 2 weeks earlier to get liner ready on time

On arrival

3 weeks after transplant

At 6 weeks, finished plant is ready to ship

Available as Genesis Direct-stick Callused Cuttings:

<table>
<thead>
<tr>
<th>Cuttings</th>
<th>Page</th>
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<tbody>
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<td>Bracteantha Dreamtime®</td>
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<tr>
<td>Geranium, Ivy Focus™</td>
<td>p. 70</td>
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<tr>
<td>Geranium, Ivy Precision™</td>
<td>p. 72</td>
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<td>Geranium, Zonal Dynamo™</td>
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<td>Geranium, Zonal Fantasia™</td>
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<td>Geranium, Zonal Presto™</td>
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<td>Osteospermum Blue Eyed Beauty</td>
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<td>Osteospermum Blushing Beauty</td>
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<tr>
<td>Osteospermum ‘Sunshine Beauty’</td>
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<tr>
<td>Osteospermum Serenity™</td>
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<td>Scaevola Bondi™</td>
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<tr>
<td>Scaevola ‘Blue Brilliance’</td>
<td>p. 129</td>
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<tr>
<td>Scaevola White Sparkle</td>
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</table>
ZONAL GERANIUM

Presto™
Naturally compact and dark-leafed
**ZONAL GERANIUM**

*Pelargonium hortorum*

**Presto™**

**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.

Also available as Genesis direct-stick callused cuttings.

---

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<tr>
<th>VARIETY</th>
<th>FLOWER TIMING</th>
<th>LEAF TYPE</th>
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<td>White</td>
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**REAL SERIES:** All varieties in a series have the same habit, vigor and flowering time for high-density production.

---

Our geraniums are grouped by vigor to assist in variety selection.
Fantasia®
A beautiful contrast of dark leaves and bright blooms

ZONAL GERANIUM
Petargonium 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.
Also available as Genesis direct-stick callused cuttings.
NEW Shocking Blue: Adds a new color to the series that is a truer blue than the competition.

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.

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<tr>
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GROWER’S CHOICE: These varieties share uniform timing and habit
ZONAL GERANIUM

Grower’s Choice: These varieties share uniform timing and habit.

- Dark Red
- Fuchsia Berry
- Orange
- Shocking Blue

- Cardinal Red
- Scarlet
- Cranberry Sizzle
- Violet

- Purple Sizzle
- Salmon
- Strawberry Sizzle
- Pink

- Neon Rose
- Shocking Pink
- Flamingo Rose
- Appleblossom

- White

FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL
Dynamo™ – MEDIUM HABIT

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

GROWER’S CHOICE: These varieties share uniform timing and habit.

ZONAL GERANIUM
Pelargonium hortorum

Dynamo™
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.
Also available as Genesis direct-stick callused cuttings.
ZONAL GERANIUM

Galaxy™

Big impact in landscapes and large planters
Galaxy™ – VIGOROUS HABIT

VARiETY | FLOWER TIMING | LEAF TiMIRg | HABIT
---|---|---|---
Dark Red **TOP SELLER** | medium | green | vigorous
Pink | medium | green-zoning | vigorous
Purple | medium | green | vigorous
Red | medium | green-zoning | vigorous
Salmon | medium | green-zoning | vigorous
Violet | medium | green-zoning | vigorous
Watermelon **TOP SELLER** | medium | green-zoning | vigorous
White | medium | green | vigorous

ZONAL GERANIUM

Pelargonium hortorum

**Galaxy™**

**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.

Also available as Genesis direct-stick callused cuttings.
**Focus™**

Compact and dark-leafed for dramatic baskets

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>FLOWER TIMING</th>
<th>LEAF TYPE</th>
<th>HABIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burgundy</td>
<td>early</td>
<td>dark</td>
<td>compact</td>
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<tr>
<td>Hot Pink</td>
<td>early</td>
<td>dark</td>
<td>compact</td>
</tr>
<tr>
<td>Red</td>
<td>early</td>
<td>dark</td>
<td>compact</td>
</tr>
<tr>
<td><strong>Red Ice TOP SELLER</strong></td>
<td>early</td>
<td>dark</td>
<td>compact</td>
</tr>
<tr>
<td>Rose</td>
<td>early</td>
<td>dark</td>
<td>compact</td>
</tr>
</tbody>
</table>

**REAL SERIES:** All varieties in a series have the same habit, vigor and flowering time for high-density production.
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.
Also available as Genesis direct-stick callused cuttings.
IVY GERANIUM

Precision™

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.

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**Precision™ – MEDIUM HABIT**

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>FLOWER TIMING</th>
<th>LEAF TYPE</th>
<th>HABIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burgundy</td>
<td>early</td>
<td>green</td>
<td>medium mounded</td>
</tr>
<tr>
<td>Burgundy Ice</td>
<td>early</td>
<td>green</td>
<td>medium-compact mounded</td>
</tr>
<tr>
<td>Dark Burgundy</td>
<td>early</td>
<td>green</td>
<td>medium mounded</td>
</tr>
<tr>
<td>Dark Salmon</td>
<td>early/medium</td>
<td>green</td>
<td>medium mounded</td>
</tr>
<tr>
<td><strong>Lavender Blue</strong></td>
<td><strong>TOP SELLER</strong></td>
<td>dark</td>
<td>medium</td>
</tr>
<tr>
<td>Pink</td>
<td>early</td>
<td>green</td>
<td>medium mounded</td>
</tr>
<tr>
<td>Pink Flamingo</td>
<td>early/medium</td>
<td>green</td>
<td>medium mounded</td>
</tr>
<tr>
<td><strong>Red</strong></td>
<td><strong>TOP SELLER</strong></td>
<td>early</td>
<td>medium</td>
</tr>
<tr>
<td>Red Ice</td>
<td><strong>TOP SELLER</strong></td>
<td>early</td>
<td>medium</td>
</tr>
<tr>
<td>Rose</td>
<td>early</td>
<td>green</td>
<td>medium mounded</td>
</tr>
<tr>
<td>Ruby <strong>TOP SELLER</strong></td>
<td>early</td>
<td>green</td>
<td>medium mounded</td>
</tr>
<tr>
<td>White Red Eye</td>
<td>early</td>
<td>green</td>
<td>medium-compact mounded</td>
</tr>
</tbody>
</table>

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

---

**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-leafed 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.
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.
DOUBLE IMPATIENS

Fiesta Bonita™
A celebration of supersized double blooms

Top: White in mix combo
Bottom Left: Burgundy
Bottom Right: Stardust Lavender
DOUBLE IMPATIENS

*Impatiens walleriana*

**Fiesta Bonita™**

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

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

Extremely uniform series pairs large, colorful blooms with a controlled habit for easy production.

Ideal for 4-in. (10-cm), quart and 2.5-quart containers, as well as 10 to 12-in. (25 to 30-cm) hanging baskets.

FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL
DOUBLE IMPATIENS

Fiesta™

Big and bold double blooms for the shade

Stardust Pink and Appleblossom
**DOUBLE IMPATIENS**

*Impatiens walleriana*

**Fiesta™**

**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.

Includes 7 Grower’s Choice varieties – these top performers deliver the most uniform habit and timing across the key double impatiens colors.

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.

**Grower’s Choice:** These varieties share uniform timing and habit.

- **White**
- **Appleblossom**
- **Lavender Orchid**
- **Sparkler Hot Pink**
- **Pink Ruffle**
- **Sparkler Cherry**
- **Stardust Pink**
- **Stardust Purple**
- **Salsa Red**
- **Deep Orange**
- **Sunrise Red**
- **Purple**
- **Burgundy**
INTERSPECIFIC IMPATIENS

SunPatiens® Vigorous

Masses of nonstop color for landscapes

Left: NEW White Improved
Top Right: NEW Sweetheart White
Bottom Right: Corona
**INTERSPECIFIC IMPATIENS**

- **Height:** 18 to 36 in. (46 to 91 cm)
- **Spread:** 22 to 36 in. (56 to 91 cm)
- Provides twice as much coverage and color as standard bedding plants.
- Thrives in sun or shade conditions.
- More robust plant growth is ideal for cooler (northern) climates.
- Plants get better looking the longer they are in the garden.
- Flourishes in extreme heat and blooms continuously all Summer long.

**SunPatiens® Vigorous**

- **Height:** 18 to 36 in. (46 to 91 cm)
- **Spread:** 22 to 36 in. (56 to 91 cm)
- Provides twice as much coverage and color as standard bedding plants.
- Thrives in sun or shade conditions.
- More robust plant growth is ideal for cooler (northern) climates.
- Plants get better looking the longer they are in the garden.
- Flourishes in extreme heat and blooms continuously all Summer long.

**NEW Sweetheart White:** New color with larger flowers and exceptional garden performance.

**NEW White Improved:** Features better branching and more floriferous with robust plant vigor. Offers exceptional heat tolerance.

**SUNPATIENS is bred by Sakata.**

**SUNPATIENS is a registered trademark of Sakata.**

**FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL**
INTERSPECIFIC IMPATIENS

SunPatiens® Compact

Outstanding flower power for containers

INTERSPECIFIC 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.
Roots fast for reduced crop time.

NEW Deep Red: Exciting red color addition to the series.
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.

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

QT SunPatiens

There is a Quick Turn option for small containers. QT SunPatiens are available for quart production. URC arrives budded for faster finish and more uniformity.
Direct-stick into pots and premium packs. 5 to 7-week finish schedule from direct-stick into a pack.
Tropical Rose

Deep Red

Hot Pink

Rose Glow

Orchid Blush

Pink Candy

Tropical Punch Mix

Electric Orange

Coral Pink

Lilac

Summer Salsa Mix

Blush Pink

Purple

Royal Magenta

Hot Coral

White

Best Friends Mix
contains Compact White, Compact Royal Magenta and Compact Lilac impatiens.

Summer Salsa Mix
contains Compact Coral Pink, Compact Hot Coral and Compact Red impatiens.

Forever Summer Mix
contains Compact Coral Pink, Compact White and Compact Purple impatiens.

Happy Days Mix
contains Compact Rose Glow, Compact Orchid Blush and Compact Hot Pink impatiens.

Hawaiian Sunset Mix
contains Compact Coral Pink, Compact Orchid Blush and Compact Purple impatiens.

Lovebird Mix
contains Vigorous Pink Kiss, Vigorous Red and Vigorous Shell Pink impatiens.

Tropical Punch Mix
contains Compact Hot Coral, Compact Orchid Blush and Compact Purple impatiens.
NEW GUINEA IMPATIENS

Clockwork™
A compact star in small pots and mixed containers

Top: Orange Stripe, Purple and Orange
Bottom: Clockwork Series
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 Appleblossom Improved:**
Extremely uniform flower timing. Uniform habit with large blooms.

**NEW Red Improved:** Better branching for more flower power.

---

**Colors:**

- White
- Lavender
- Rose
- Pink Star
- Hot Pink Glow
- Cherry Strike
- Orange
- Purple
- Orange Stripe

FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL
NEW GUINEA IMPATIENS

Celebration

Loads of color for bigger pots and baskets
**NEW GUINEA IMPATIENS**

**Impatiens hawkeri**

**Celebration**

**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.

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### NEW GUINEA IMPATIENS Celebration

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>FLOWER TIMING</th>
<th>LEAF TYPE</th>
<th>HABIT</th>
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<tbody>
<tr>
<td>Apricot</td>
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<td>vigorous</td>
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<tr>
<td>Bright Salmon</td>
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<td>vigorous</td>
</tr>
<tr>
<td>Deep Red</td>
<td>medium</td>
<td>green</td>
<td>compact-medium</td>
</tr>
<tr>
<td>Electric Rose</td>
<td>medium</td>
<td>green</td>
<td>vigorous</td>
</tr>
<tr>
<td>Icy Blue</td>
<td>early</td>
<td>dark green</td>
<td>vigorous</td>
</tr>
<tr>
<td>Lavender Glow</td>
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<td>vigorous</td>
</tr>
<tr>
<td>Orange</td>
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<td>green</td>
<td>vigorous</td>
</tr>
<tr>
<td>Pink</td>
<td>medium</td>
<td>green</td>
<td>vigorous</td>
</tr>
<tr>
<td>Purple Star</td>
<td>medium</td>
<td>bronze</td>
<td>medium</td>
</tr>
<tr>
<td>Rose Star</td>
<td>medium</td>
<td>bronze</td>
<td>vigorous</td>
</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>

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FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL
Spotlight™
A compact star in small pots and mixed containers

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.

Top: Mixed container featuring Black, Lucky Red Lantana and EnduraScape Red Verbena
Bottom: Black, Lime and Red
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.

FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL
SolarPower™
Medium habit, plus energy and color for containers and landscapes

Top Left: Mixed container featuring Lime, Lucky Sunrise Lantana and Archangel Dark Rose Angelonia
Top Right: Lime
Bottom: Red
IPOMOEA

Ipomoea batatas

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.

Black

Lime

Red

Black Heart

Lime Heart

Red Heart

FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL
SolarTower™
First-ever self-climbing ipomoea

Left: Mixed landscape featuring Lime, Black and Bloomify Red Lantana
Right: Mixed container featuring Lime, Lucky Red Lantana and FlameThrower Chili Pepper Coleus
**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 and up, 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.

---

FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM WEBTRACK OR 800 879 BALL
NEW Shamrock™
Works like a charm in hanging baskets

Maria Bolinger
Territory Manager Southeast and 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 4 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 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.
**NEW 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**

**NEW Peach**

**NEW Rose**

**NEW White**

Our lantana is grouped by vigor to assist in variety selection.
LANTANA

Little Lucky™

Practically perfect for pot-tight production
LANTANA

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.

FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL
LANTANA

Lucky™
Magically stands up to hot, dry conditions

James Doukas
Territory Manager Great Lakes and Northeast Region

“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 Pink:** Adds a new pink color to the series.

Grower’s Choice: These varieties share uniform timing and habit.

**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 Pink:** Adds a new pink color to the series.

Grower’s Choice: These varieties share uniform timing and habit.

**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.

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LANTANA

Landmark™

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

Left: Sunrise Rose
Right: White
**LANTANA**

*Lantana camara*

**Landmark™**

**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.

---

FIND GROWING INFORMATION AT [BALLFLORAPLANT.COM](http://BALLFLORAPLANT.COM) OR ORDER AT [BALLSEED.COM/WEBTRACK](http://BALLSEED.COM/WEBTRACK) OR 800 879-BALL
**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 Orange:** Adds a new orange color to the series.  
**NEW Pink:** Offers a new pink hue for this series.

**Seed Set**

- **Red**
- **Mango**
- **Orange**
- **Rose**
- **Pink**

*Bloomify Red bursts with continuous flowers and color*

*Competitive red has slowed-down flowering and shows seed pods*
NEW SunDance™

Lantana camara

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

Provides worry-free performance in any application.

Easy-to-grow lantana has unsurpassed heat tolerance. Flowers all Summer long.

Great for mixed combos that include SunPatiens® and SuperCal® varieties.

NEW Red
NEW White
NEW Yellow

SUNDANCE is a registered trademark of Sakata.

Find more lantana on page 108.
LOBELIA

Early Springs™

Early to rise for Spring sales, also takes the heat

LOBELIA Lobelia hybrida

Early Springs™

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

Early Springs is a series of highly uniform plants.

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 performs beautifully in heat.

Just one plant fills a quart or gallon container.

MixMasters NEW Gimme Some Sugar Improved
featuring Dark Blue, Bee’s Knees Petunia and
MixMasters Hot Pink Verbena

Dark Blue
Sky Blue
Lavender Pink
White

Magenta

Dark Blue
Sky Blue
Lavender Pink
White
**Waterfall™**

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

**Spread:** 24 to 30 in. (61 to 76 cm)

Vigorous, well-branched Waterfall is well-suited to pot-tight growing.

Less pinching is needed to send fast, full plants to market.

Covered with free-flowering blooms, the mounded, semi-trailing plants fill mixed baskets and containers.

Early flowering and daylength neutral for early Spring programs.

Performs well in many Fall markets for season-extending sales.

---

**Purple**

**White Blush**

**Blue**

FIND GROWING INFORMATION AT [BALLFLORAPLANT.COM](http://www.ballfloraplant.com) OR ORDER AT [BALLSEED.COM/WEBTRACK](http://www.ballseed.com/webtrack) OR 800 879-BALL
MixMasters Shoot the Breeze featuring White with Cabaret Light Pink and Midnight Blue Calibrachoa

Easy Breezy™
The easy choice for longer-flowering lobularia

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.

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

Find growing information at [BallFloraPlant.com](http://BallFloraPlant.com) or order at [BallSeed.com/WebTrack](http://BallSeed.com/WebTrack) or 800 879-BALL.

[Images of Purple, White and Pink, White and Pink, Pink, White varieties of lobularia.]

---

- **Purple**
- **White and Pink**
- **Pink**
- **White**
LANTANA

*Lantana camara*

‘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 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.

*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.
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.

MECARDONIA

Mecardonia hybrida

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.
Direct-stick Callused Cuttings

Less labor. Shortened crop time. Less shrink. Reduced input costs. Get retail-ready, top-quality osteosperums in as little as 14 weeks.

Genesis™ Cuttings

All our osteos are also available as Genesis cuttings. For more information on Genesis cuttings, see pages 60-61.

Genesis cuttings arrive ready to direct-stick in the finished container.

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

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

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

Traditional Unrooted Cuttings

Traditional URC on arrival

at 8 days

at 6 weeks

at 14 weeks

Serenity Osteospermum Series

Serenity Rose Magic
Voltage™ Yellow & Voltage™ White

Electrifying color for Summer gardens

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.

Also available as Genesis direct-stick callused cuttings.

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.

Also available as Genesis direct-stick callused cuttings.
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.
Also available as Genesis direct-stick callused cuttings.

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.
Also available as Genesis direct-stick callused cuttings.

‘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.
Also available as Genesis direct-stick callused cuttings.

Beautiful bicolors perfect for early Spring sales
**Osteospermum**

**Serenity™**

*Osteospermum ecklonis*

**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.

Also available as Genesis direct-stick callused cuttings.

---

**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.
Bee’s Knees
The most intense yellow with the best performance

Top Left and Right: Bee’s Knees
Bottom Left: NEW MixMasters
Oh Beehave! featuring Midnight Gold Petunia and Bee’s Knees
PETUNIA

Bee’s Knees

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!

Versatile, works well in containers and the landscape.

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

It features dark green foliage and outstanding branching.

A 2020 Medal of Excellence Reader’s Choice Award winner.

NEW MixMasters Great Escape featuring Bee’s Knees, Cha-Cha Diva Hot Pink Calibrachoa and Firehouse Burgundy Verbena

FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL
Tanya Carvalho
Territory Manager Canada

“I am so excited about our new 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.
**PETUNIA**

**CannonBall™**

*Petunia hybrida*

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

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

Perfect for premium pots and hanging baskets, CannonBall offers uniformity in habit and timing across all colors.

Compact habit makes it easy to grow for pot-tight production.

Early to flower.

Requires no pinch and no PGRs.

- **NEW Blue**
- **NEW Burgundy**
- **NEW Pink**
- **NEW Red**
- **NEW Rose Vein**
- **NEW White**
- **NEW Yellow**

Our petunias are grouped by vigor to assist in variety selection.

Find growing information at [BALLFLORAPLANT.COM](http://BALLFLORAPLANT.COM) or order at [BALLSEED.COM/WEBTRACK](http://BALLSEED.COM/WEBTRACK) or 800 879-BALL.
ColorBlitz™
Redefining medium vigor petunias

Top: NEW MixMasters Paradise Sunrise Improved featuring Pinkceptional, Cabaret Golden Yellow Calibrachoa and NEW Firehouse White Verbena Improved
Bottom: MixMasters Eye Caramba featuring Bluerific, Cabaret White Calibrachoa and Violet Wink Verbena
PETUNIA

**Petunia x hybrida**

**ColorBlitz™**

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

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

Bicolor and solid-color varieties match in vigor and habit. Medium-vigor series is 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.

Proven greenhouse performance under lower light and low-temperature production.

**Colors:**
- Blue
- Red
- Amethyst
- Purple
- Rose Stardust
- Blue Stardust
- Bluerific
- Pinkceptional
- Ocean Blue
- Yellow
- Snowy White

FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL
Manda Vuksanaj
Territory Manager Midwest/West Coast

“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, NEW Merlot Star Improved 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 big garden performance.

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

Mounds of color 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.

NEW Merlot Star Improved: Offers a cleaner look and more vibrant star pattern that is stable. Improved habit fits the series better. Features better weather tolerance compared to original Merlot Star.

NEW Red: This new color for the series has a higher vigor than Watermelon Red, with a more mounded habit and good weather tolerance.

NEW Yellow: Adds an important new color to the series and great in-ground performance.

WEEK IN FLOWER

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>FLORIDA</th>
<th>ARROYO GRANDE</th>
<th>WEST CHICAGO</th>
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</thead>
<tbody>
<tr>
<td>Blue TOP SELLER</td>
<td>5</td>
<td>7</td>
<td>14</td>
</tr>
<tr>
<td>NEW Merlot Star Improved</td>
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</tr>
<tr>
<td>Pink TOP SELLER</td>
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<tr>
<td>Pink Vein TOP SELLER</td>
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<td>Purple</td>
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<tr>
<td>NEW Red</td>
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<td>Watermelon Red</td>
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<td>13</td>
</tr>
<tr>
<td>White</td>
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<td>12</td>
</tr>
<tr>
<td>NEW Yellow</td>
<td>3</td>
<td>6</td>
<td>13</td>
</tr>
</tbody>
</table>
DOUBLE PETUNIA

NEW Vogue™

Fashionably early with bountiful blooms
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!

NEW Blue
NEW Lavender Vein
NEW Lemon Berry: Bicolor is unique to the Vogue series.
NEW Pink
NEW Red
NEW White

FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL
PETUNIA

Petunia hybrida

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!

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 and Pinstripe at retail and in the garden.

Cha-Ching Cherry

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

Exciting multicolor variety wows with cherry red blooms and creamy yellow star pattern. Easy to grow – times with other Ball FloraPlant novelty petunia varieties. Mounding habit, vigor and timing match other Ball FloraPlant novelty varieties like Pinstripe for efficient production. Mixes well with other species in combinations.
PETUNIA <i>Petunia x hybrida</i>

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

Adds a stylish and sophisticated look to mixed containers. Each of the dark purple blooms shows off a creamy white star pattern. Easy-to-grow mounded habit.

**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- striping blooms with excellent flower form and a controlled, mounded, trailing habit.

**Lime Light**
- **Height:** 8 to 12 in. (20 to 30 cm)
- **Spread:** 8 to 12 in. (20 to 30 cm)

This distinctive compact variety has trumpet-shaped blooms in rose with a lime border. Lime Light is early blooming and highly floriferous, with a mounding habit. With its premium, sought-after color on cost-effective, grower-friendly plants, Lime Light is perfect for small pots and hanging baskets. Extremely sensitive to any PGR treatment.

**Cascadias™ Indian Summer**
- **Height:** 10 to 12 in. (25 to 30 cm)
- **Spread:** 12 to 16 in. (30 to 41 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.

**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.

---

**TRAILING PETUNIA <i>Petunia x hybrida</i>**

**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.

---

FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL
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 Pearl White
NEW Purple Dawn
NEW Sunset Orange
NEW Yellow Sun

SuperCal® Premium Mixes

SuperCal offers 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.

Autumn Spice Mix contains Cinnamon and French Vanilla.

Bonfire Mix contains Cinnamon, French Vanilla and Caramel Yellow.

NEW Citrus Mix contains NEW Pearl White, NEW Sunset Orange and NEW 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.

**NEW Pink Improved** offers improved heat tolerance and a more robust root system for superior performance under stress.

**NEW**

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

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.

**Garden Magic Mix** contains Blue, Light Yellow and Cherry petchoa.

**Summer Sensation Mix** contains Blue, Light Yellow and Pink Improved petchoa.

---

**Colors:**

- Pink Improved
- Garden Magic Mix
- Summer Sensation Mix
- Neon Rose
- Rose
- Royal Red
- Blue
- Terracotta
- Cherry
- Lavender Star
- Violet
- Pink Ice
- Artist Rose
- Snowberry White

---

FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL
PLECTRANTHUS

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. Useful in combos, patio planters and landscapes.

‘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.

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

PURSLANE
Portulaca oleracea

Río Grande™
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.

Grower’s Choice: These varieties share uniform timing and habit
SCAEVOLA

*Scaevola aemula*

‘Blue Fan’

*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.

Also available as Genesis direct-stick callused cuttings.

**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.

Also available as Genesis direct-stick callused cuttings.

BONDI is bred by Kings Park and Botanic Garden, Western Australia.

*Scaevola hybrid*

‘Blue Brilliance’

*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.

Also available as Genesis direct-stick callused cuttings.

White Sparkle

*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.

Also available as Genesis direct-stick callused cuttings.

WHITE SPARKLE is bred by Kings Park and Botanic Garden, Western Australia.

FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL
Mysty & Mystic Spires

Perfect performance in small pots and combos

**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.

**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 a better variety for mixes. Covered with true blue flowers all season, the dark green-leafed plants are naturally more compact, well-branched and very free-flowering. Heat-hardy plants are great for late Spring/Summer programs. Ideal for middle of the garden borders and 10 to 12-in. (25 to 30-cm) mixed containers.
SALVIA
Salvia guaranitica
‘Black & Bloom’
Height: 36 to 48 in. (91 to 122 cm)
Spread: 36 to 48 in. (91 to 122 cm)
Makes a big impact with a thicker leaf, bigger bloom and
darker stem than ‘Black & Blue’. Tough as nails – it thrives in
heat, drought and humidity. Very fast to finish and easy to grow,
requiring very little attention. Desirable deep blue color against
a black stem stands out in every landscape or container. Ideal
for 4-in. (10-cm), 1-gallon and 2-gallon pots.

‘Black & Blue’
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 new 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!

SALVIA
Salvia longispicata x farinacea
‘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.

‘Roman Red’
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.

‘White Flame’
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.

More similar in habit and
performance to ‘Black & Bloom’,
with a semi-mounded habit.
Matches Mystic Spires in height.
THUNBERGIA

*Sunny™*

**Thunbergia alata**

**Sunny Arizona Glow Thunbergia**

**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.

**THUNBERGIA**

**ToRENIA**

**Torenia hybrid**

**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.
Grower’s Choice: These varieties share uniform timing and habit

**Magilla® Purple Perilla**
*Perilla frutescens*
- **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.

**Aromatica™ Nemesia**
*Nemesia fruticans*
- **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.

**Burgundy Wink and Violet Wink Verbena**
*Verbena peruviana*
- **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.

**Mixmasters Eye Caramba featuring Violet Wink Verbena, Cabaret White Calibrachoa and ColorBlitz Bluerific Petunia**

**FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL**
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.
Firehouse™
Stands tough when the heat rises

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.
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 White Improved: Upgraded to flower one week earlier than original White, with better branching, more blooms on the plant and a stronger, fuller habit. Increased vigor matches the series better.

FIND GROWING INFORMATION AT BALLFLORAPLANT.COM OR ORDER AT BALLSEED.COM/WEBTRACK OR 800 879-BALL
VERBENA

EnduraScape™

Color that won’t quit

Left: Pink Fizz and White
Right: Blue and Hot Pink
EnduraScape™

**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 Burgundy:** Adds a new deep red color to the series.

**VERBENA**

**Verbena peruviana**

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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
<table>
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<th>CROP</th>
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<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 (Sutera)</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>Coleus</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>4-6</td>
<td>No</td>
<td>2-3</td>
<td>Avoid stretch. Transplant on time. A B-Nine spray (1,500-2,000 ppm) 10-12 days after stick can help to reduce stem elongation.</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>Honeybells will require 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>50, 72, 84, 105</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>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>Geranium (Ivy)</td>
<td>See Comments</td>
<td>Optional</td>
<td>9-13</td>
<td>No</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. Ipy 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>See Comments</td>
<td>Optional</td>
<td>9-12</td>
<td>No</td>
<td>3-4</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. 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>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 (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 (Interspecific)</td>
<td>50, 72, 84, 105</td>
<td>No</td>
<td>6-8</td>
<td>No</td>
<td>3</td>
<td>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>Ipomoea</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. Ipomoeas 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>
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<td>------------------------</td>
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<td>---------------------------------</td>
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</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.</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>Optional</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>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>50, 72, 84, 105</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>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>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>Optional</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>THUNBERGIA</td>
<td>50, 72, 84, 105</td>
<td>No</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>TORENA</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.
<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>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>175-225</td>
<td>1</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>ANGELONIA</td>
<td>Angelissa™, 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>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>Bee Alive</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 Compact, Sun Drop Compact Double, Sun Drop Double, Sun Drop Improved, 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™, Terracotta</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>
</tr>
<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>
<td>1-2</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>
</tbody>
</table>
### Annual Culture Guide

<table>
<thead>
<tr>
<th>Crop Time from Rooted Cutting*</th>
<th>153</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>4 TO 5-IN. (10 TO 13-CM) POTS</strong></th>
<th><strong>6-IN. (15-CM) POTS, GALLONS</strong></th>
<th><strong>10 TO 12-IN. (25 TO 30-CM) POTS OR BASKETS</strong></th>
<th><strong>PLANT GROWTH REGULATORS (S) SPRAY (D) DRENCH</strong></th>
<th><strong>PESTS</strong></th>
<th><strong>DISEASES</strong></th>
<th><strong>COMMENTS</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ppm, 6-8 weeks</td>
<td>1-2 ppm, 8-10 weeks</td>
<td>3-5 ppm, 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>
</tr>
<tr>
<td>1 ppm, 4-6 weeks</td>
<td>1-3 ppm, 7-9 weeks</td>
<td>3-5 ppm, 10-12 weeks</td>
<td>Generally not needed. B-Nine(S) 1,500-3,000 ppm and Cycoce 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>
</tr>
<tr>
<td>1 ppm, 5-8 weeks</td>
<td>1 ppm, 7-9 weeks</td>
<td>3-5 ppm, 10-12 weeks</td>
<td>Generally not needed. B-Nine(S) 1,500-3,000 ppm and Cycoce 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>
</tr>
<tr>
<td>1-2 ppm, 5-7 weeks</td>
<td>2-3 ppm, 7-10 weeks</td>
<td>4-5 ppm, 8-12 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>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/iron deficiency. Refer to the MegaCopa Series Bacopa Grower Facts at ballfloraplant.com for detailed culture information.</td>
</tr>
<tr>
<td>1 ppm, 5-7 weeks</td>
<td>2-3 ppm, 6-8 weeks</td>
<td>4-5 ppm, 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>
</tr>
<tr>
<td>1-2 ppm, 5-7 weeks</td>
<td>1-3 ppm, 6-8 weeks</td>
<td>4-5 ppm, 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>
</tr>
<tr>
<td>1 ppm, 5-7 weeks</td>
<td>2-3 ppm, 6-8 weeks</td>
<td>4-5 ppm, 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>
</tr>
<tr>
<td>1 ppm, 4-6 weeks</td>
<td>2-3 ppm, 6-8 weeks</td>
<td>4-5 ppm, 12-14 weeks</td>
<td>Generally not needed.</td>
<td>Thrips, whitefly, Botrytis, Thielaviopsis</td>
<td>Cool temperatures and high light will produce the best habit.</td>
<td></td>
</tr>
<tr>
<td>1 ppm, 5-7 weeks</td>
<td>2-3 ppm, 6-8 weeks</td>
<td>4-5 ppm, 10-14 weeks</td>
<td>Generally not needed.</td>
<td>Thrips, whitefly, Botrytis, Thielaviopsis</td>
<td>Cool temperatures and high light levels will produce the highest quality plants.</td>
<td></td>
</tr>
<tr>
<td>1 ppm, 4-6 weeks</td>
<td>1-2 ppm, 6-8 weeks</td>
<td>4-5 ppm, 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, 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 ppm, 6-8 weeks</td>
<td>1-2 ppm, 7-9 weeks</td>
<td>3-5 ppm, 10-12 weeks</td>
<td>Generally not needed. Is responsive to Bonzi(D) 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>
</tr>
<tr>
<td>1 ppm, 6-9 weeks</td>
<td>1-2 ppm, 7-11 weeks</td>
<td>3-5 ppm, 12-14 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>
</tr>
<tr>
<td>1 ppm, 5-8 weeks</td>
<td>1-3 ppm, 6-10 weeks</td>
<td>3-5 ppm, 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 should provide adequate control.</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>
</tr>
<tr>
<td>1 ppm, 5-7 weeks</td>
<td>1-2 ppm, 6-8 weeks</td>
<td>3-4 ppm, 8-11 weeks</td>
<td>Generally not needed.</td>
<td>Thrips, aphids, whitefly</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-banching.</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>COLEUS</td>
<td>Campfire, Coleosaurus, Dragon Heart, Electric Lime®, French Quarter Heartbreaker, Henna, Indian Summer, Inferno, Limewire, Mint Mocha, Redhead, 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>Pinkplosion</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 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>Spitfire</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>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>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>
<tr>
<td>CUPHEA</td>
<td>Honeybells</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>
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<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>EUPHORIA</td>
<td>Breathless®</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>
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<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>4 TO 5-IN. (10 TO 13-CM) POTS</td>
<td>6-IN. (15-CM) POTS, GALLONS</td>
<td>10 TO 12-IN. (25 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 pph, 5-7 weeks</td>
<td>1-3 pph, 6-8 weeks</td>
<td>4-5 pph, 8-11 weeks</td>
<td>Is responsive to B-Nine(S) 2,500-3,500 ppm and Cycoce(S) 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>
<td></td>
</tr>
<tr>
<td>1 pph, 5-7 weeks</td>
<td>1-3 pph, 6-8 weeks</td>
<td>4-5 pph, 8-11 weeks</td>
<td>Is responsive to B-Nine(S) 2,500-3,500 ppm and Cycoce(S) 1,000-1,500 ppm tank mix or Sumagic(S) 5-10 ppm.</td>
<td>Whitefly, aphids, thrips</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 pph, 5-7 weeks</td>
<td>1-2 pph, 6-8 weeks</td>
<td>3-4 pph, 8-11 weeks</td>
<td>Generally not needed. Sumagic(S) 5-10 ppm or a B-Nine 2,500-3,500 ppm and Cycoce 1,000-1,500 ppm tank mix(S) can be used to maintain habit as needed.</td>
<td>Thrips, aphids, whitefly</td>
<td>Root rot</td>
<td>Scout plants regularly for whitefly. Avoid crowding at all stages.</td>
<td></td>
</tr>
<tr>
<td>1 pph, 5-7 weeks</td>
<td>1-3 pph, 6-8 weeks</td>
<td>4-5 pph, 8-11 weeks</td>
<td>Is responsive to B-Nine(S) 2,500-3,500 ppm and Cycoce(S) 1,000-1,500 ppm tank mix or Sumagic(S) 5-10 ppm.</td>
<td>Thrips, aphids, whitefly</td>
<td>Root rot</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 pph, 5-7 weeks</td>
<td>1-3 pph, 6-8 weeks</td>
<td>4-5 pph, 8-11 weeks</td>
<td>Generally not needed. Sumagic(S) 5-10 ppm or a B-Nine 2,500-3,500 ppm and Cycoce 1,000-1,500 ppm tank mix(S) can be used to maintain habit as needed.</td>
<td>Thrips, aphids, whitefly</td>
<td>None</td>
<td>Scout plants regularly for whitefly. Avoid crowding at all stages.</td>
<td></td>
</tr>
<tr>
<td>1 pph, 5-7 weeks</td>
<td>1-3 pph, 6-8 weeks</td>
<td>4-5 pph, 8-11 weeks</td>
<td>Is responsive to B-Nine(S) 2,500-3,500 ppm and Cycoce(S) 1,000-1,500 ppm tank mix or Sumagic(S) 5-10 ppm.</td>
<td>Thrips, aphids, whitefly</td>
<td>None</td>
<td>Pinch early to shape. Scout plants regularly for whitefly. Avoid crowding at all stages.</td>
<td></td>
</tr>
<tr>
<td>1 pph, 6-8 weeks</td>
<td>1-3 pph, 8-10 weeks</td>
<td>4-6 pph, 10-12 weeks</td>
<td>No PGR is recommended for this variety. Very compact.</td>
<td>Whitefly, aphids, thrips</td>
<td>Downey Mildew</td>
<td>Good branching coleus. No Pinch. No PGR after transplant.</td>
<td></td>
</tr>
<tr>
<td>1-3 pph, 6-8 weeks</td>
<td>2-5 pph, 7-9 weeks</td>
<td>3-6 pph, 10-12 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>
<td></td>
</tr>
<tr>
<td>1-2 pph, 6-8 weeks</td>
<td>1-2 pph, 7-9 weeks</td>
<td>3-5 pph, 10-12 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>
<td></td>
</tr>
<tr>
<td>1 pph, 6-8 weeks</td>
<td>2-5 pph, 7-9 weeks</td>
<td>3-6 pph, 10-12 weeks</td>
<td>Honeybells can benefit from a Bonz(D) 2 ppm to control finished habit. Honeybells can benefit from a Florel(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>
<td></td>
</tr>
<tr>
<td>1 pph, 5-7 weeks</td>
<td>1-2 pph, 7-9 weeks</td>
<td>3-4 pph, 9-11 weeks</td>
<td>Use B-Nine(S) 3,000-5,000 ppm as needed to maintain habit. Florel(S) 200-300 ppm can be used to improve branching.</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>
<td></td>
</tr>
<tr>
<td>1 pph, 5-7 weeks</td>
<td>1-3 pph, 6-9 weeks</td>
<td>3-5 pph, 9-11 weeks</td>
<td>B-Nine(S) 2,500 ppm, Cycoce(S) 750 ppm tank mix 7-10 days after transplant. Do not use Florel.</td>
<td>None</td>
<td>None</td>
<td>Sensitive to overwatering. Pinch for a better habit, especially in larger containers.</td>
<td></td>
</tr>
<tr>
<td>1 pph, 6-8 weeks</td>
<td>1-2 pph, 8-9 weeks</td>
<td>3-4 pph, 10-12 weeks</td>
<td>None</td>
<td>Whitefly, aphids</td>
<td>Pythium, Botrytis</td>
<td>Pinch as needed to shape. Fertilize regularly. Avoid extremely high humidity or saturated media, both of which will encourage Botrytis.</td>
<td></td>
</tr>
</tbody>
</table>

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

Annual Culture Guide

Crop Time from Rooted Cutting*

NIGHT PPM N

Effects

Crop Time from Rooted Cutting*

Annual Culture Guide

Crop Time from Rooted Cutting*
<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>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>
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<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>
<tr>
<td>IMPATIENS (DOUBLE)</td>
<td>Fiesta Bonita™</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>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 (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 (INTERSPECIFIC)</td>
<td>SunPatiens Compact, SunPatiens® Vigorous</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>
</tbody>
</table>

*Pests and Diseases:
- Virus, Botrytis
- Necrotic Spot
- Whitefly, gnats
- Mites, aphids, thrips
- Leafminers, thrips
- Fungus

*Comments:
- Cool temperatures will promote toned plants.
- Dry culture, low to moderate nutrition, and avoid water stress in all stages of crop.
- Premature flowering can be controlled by the use of Cyclazic® 750-1,000 ppm to improve branching.
- Use B-Nine 1,500-3,000 ppm to control growth; Florel® 200-300 ppm to improve branching.
- Use early PGR applications to achieve ideal height but not delay flowering as crop matures will control final height.
- Presto Geraniums usually do not require PGRs to produce high-quality plants. Refer to the Fantasia Zonal PGR recommendations at ballfloraplant.com.
- Keep foliage dry. Provide good air circulation.
<table>
<thead>
<tr>
<th>4 TO 5-IN. (10 TO 13-CM) POTS OR BASKETS</th>
<th>6-IN. (15-CM) POT OR GALLONS</th>
<th>PLANT GROWTH REGULATORS (B) SPRAY (D) DRENCH</th>
<th>PESTS</th>
<th>DISEASES</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<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>Cycoce(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>Cycoce(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>
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<td>4-5 ppp, 11-13 weeks</td>
<td>Cycoce(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>
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<tr>
<td>1 ppp, 8-9 weeks</td>
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<td>4-5 ppp, 11-13 weeks</td>
<td>Cycoce(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. Cycoce(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, 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 Cycoce 750-1,000 ppm tank mix(S).</td>
<td>Whitefly, mites, aphids</td>
<td>Root rot</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>Bonz(S) 5-10 ppm can be used to control habit early. Bonz(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>Impatiens Necrotic Spot Virus, Botrytis, Pythium</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>Bonz(S) 5-15 ppm can be used to control habit early. Bonz(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>Impatiens Necrotic Spot Virus, Botrytis, Pythium</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>Bonz(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>Impatiens Necrotic Spot Virus, Botrytis, Pythium</td>
</tr>
<tr>
<td>1 ppp, 5-7 weeks</td>
<td>1 ppp, 7-9 weeks</td>
<td>3 ppp, 9-12 weeks</td>
<td>B-Nine/Bonzi(S) 1,000 ppm; B-Nine/Z2 ppm Bonzi (low rate) for Compact series.</td>
<td>Thrips, aphids, mites</td>
<td>Impatiens Necrotic Spot Virus, Botrytis, Pythium</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 (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>LAMIIUM</td>
<td>Beacon Silver, Jade Frost, 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>Landmark™</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>Little Lucky™, New Gold, Purple Falls</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>Lucky™, 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>
<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>4 TO 5-IN. (10 TO 13-CM) POTS</td>
<td>6-IN. (15-CM) POTS, GALLONS</td>
<td>10 TO 12-IN. (25 TO 30-CM) POTS OR BASKETS</td>
<td>PLANT GROWTH REGULATORS (D) 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>1-2 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>Impatiens 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>
<td></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>
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<td></td>
</tr>
<tr>
<td>1 ppp, 4-5 weeks</td>
<td>1-3 ppp, 5-6 weeks</td>
<td>3-5 ppp, 8-10 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>
<td></td>
</tr>
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<td>1 ppp, 4-5 weeks</td>
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<td>3-5 ppp, 8-10 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>
<td></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>
<td></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>
<td></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 Sunagic(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>
<td></td>
</tr>
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<td>1-2 ppp, 6-7 weeks</td>
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<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 Sunagic(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. Landmark varieties are more vigorous.</td>
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<td>Whitefly, leafminers, aphids</td>
<td>Root rot</td>
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</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>
<td></td>
</tr>
<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>
<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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<th>LIGHT LEVELS (FC)</th>
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<th>TEMPERATURE NIGHT</th>
<th>FERTILIZATION (PPM N)</th>
<th>NO. OF PINCHES</th>
</tr>
</thead>
<tbody>
<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>
<td>1-2</td>
</tr>
<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>
<td>1-2</td>
</tr>
<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 sizes over 6 in. (15 cm)</td>
</tr>
<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>
<td>1-2</td>
</tr>
<tr>
<td>OSTEOSPERMUM</td>
<td>Blue Eyed 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>
</tr>
<tr>
<td></td>
<td>Blushing Beauty,</td>
<td></td>
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<tr>
<td></td>
<td>Serenity™, Sunshine Beauty</td>
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<tr>
<td>OSTEOSPERMUM</td>
<td>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>
<td>225-300</td>
<td>0-1</td>
</tr>
<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>
<td>175-225</td>
<td>0-1</td>
</tr>
<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>
<td>1-2</td>
</tr>
<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 or 2</td>
</tr>
<tr>
<td>PETUNIA</td>
<td>Bee’s Knees, ColorBlitz™</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>
<td>0-1</td>
</tr>
<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>
<td>0-1</td>
</tr>
<tr>
<td>PETUNIA</td>
<td>CannonBall™</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>
<td>0-1</td>
</tr>
<tr>
<td>Variety</td>
<td>Crop Time from Rooted Cutting*</td>
<td>4 TO 5-IN. (10 TO 13-CM) POTS</td>
<td>6-IN. (15-CM) GALLONS</td>
<td>10 TO 12-IN. (25 TO 30-CM) POTS OR BASKETS</td>
<td>PLANT GROWTH REGULATORS (S) SPRAY (D) DRENCH</td>
<td>PESTS</td>
<td>DISEASES</td>
</tr>
<tr>
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<tr>
<td>PETUNIA CannonBall™</td>
<td>1-2 ppp, 4-5 weeks</td>
<td>1-2 ppp, 4-5 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></td>
<td>Fungus gnats, whitefly</td>
<td></td>
</tr>
<tr>
<td>PETUNIA Black Magic</td>
<td>2-3 ppp, 4-5 weeks</td>
<td>2-3 ppp, 4-5 weeks</td>
<td>3-5 ppp, 6-8 weeks</td>
<td>Generally not needed. Pinching is best for shaping the plant.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PETCHOA SuperCal® Premium</td>
<td>2-3 ppp, 5-6 weeks</td>
<td>2-3 ppp, 5-6 weeks</td>
<td>5-6 ppp, 8-10 weeks</td>
<td>Plant Growth Regulators not needed when grown in high light.</td>
<td></td>
<td>Aphids, fungus gnats, slugs/snails</td>
<td></td>
</tr>
<tr>
<td>PETCHOA SuperCal®</td>
<td>2-3 ppp, 5-6 weeks</td>
<td>2-3 ppp, 5-6 weeks</td>
<td>7-9 weeks</td>
<td>Grow cool and bright to improve habit. Nemesis is responsive to B-Nine(S) 2,500-4,000 ppm, Sumagic(S) 20-30 ppm, and Floret(S) 200-300 ppm.</td>
<td></td>
<td>Thrips, aphids, leafminers</td>
<td></td>
</tr>
<tr>
<td>OSTEOSPERMUM Voltage™ White, Voltage™</td>
<td>2-3 ppp, 5-6 weeks</td>
<td>2-3 ppp, 5-6 weeks</td>
<td>7-9 weeks</td>
<td>Grown primarily for whitefly.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NEMESIA Aromatica™</td>
<td>1-2 ppp, 5-7 weeks</td>
<td>1-2 ppp, 5-7 weeks</td>
<td>3-4 ppp, 9-11 weeks</td>
<td>Is responsive to B-Nine(S) 2,500-4,000 ppm alone or as a tank mix(S) with Cycolol 750-1,000 ppm. Bonzi(S) 15-30 ppm is also effective.</td>
<td></td>
<td>Aphids, whitefly, thrips</td>
<td></td>
</tr>
<tr>
<td>LYSIMACHIA Goldilocks</td>
<td>1-2 ppp, 5-7 weeks</td>
<td>1-2 ppp, 5-7 weeks</td>
<td>3-4 ppp, 9-11 weeks</td>
<td>Is responsive to B-Nine(S) 2,500-4,000 ppm alone or as a tank mix(S) with Cycolol 750-1,000 ppm. Bonzi(S) 15-30 ppm is also effective.</td>
<td></td>
<td>Aphids, whitefly, thrips</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-2 ppp, 5-7 weeks</td>
<td>1-2 ppp, 5-7 weeks</td>
<td>3-4 ppp, 11-15 weeks</td>
<td>B-Nine(S) 2,000-4,000 ppm, applied 1-3 times, can be used to control habit.</td>
<td></td>
<td>Thrips, aphids, whitefly</td>
<td></td>
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<tr>
<td></td>
<td>1-3 ppp, 6-8 weeks</td>
<td>1-3 ppp, 6-8 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></td>
<td>Whitefly, thrips, leafminers, aphids, mites</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-3 ppp, 6-8 weeks</td>
<td>1-3 ppp, 6-8 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></td>
<td>Whitefly, thrips, leafminers, aphids, mites</td>
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<tr>
<td></td>
<td>1-2 ppp, 5-7 weeks</td>
<td>1-2 ppp, 5-7 weeks</td>
<td>3-5 ppp, 8-11 weeks</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></td>
<td>Whitefly, thrips, leafminers</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2-3 ppp, 5-7 weeks</td>
<td>2-3 ppp, 5-7 weeks</td>
<td>4-5 ppp, 8-11 weeks</td>
<td>B-Nine(S) 1,000-2,000 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></td>
<td>Whitefly, thrips, leafminers</td>
<td></td>
</tr>
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<td></td>
<td>2-3 ppp, 5-7 weeks</td>
<td>2-3 ppp, 5-7 weeks</td>
<td>3-5 ppp, 8-11 weeks</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></td>
<td>Whitefly, thrips, leafminers</td>
<td></td>
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</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>
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<th>SERIES/VARIETY</th>
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<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>Cascadias™ Indian Summer</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>
<td>0-1</td>
</tr>
<tr>
<td>PETUNIA</td>
<td>Cha-Ching Cherry</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>
<td>0-1</td>
</tr>
<tr>
<td>PETUNIA</td>
<td>ColorRush™</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>
<td>0-1</td>
</tr>
<tr>
<td>PETUNIA</td>
<td>Lime Light</td>
<td>5.8-5.2</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>
<td>0-1</td>
</tr>
<tr>
<td>PETUNIA</td>
<td>Midnight Gold, Pink Diamond</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>
<td>0-1</td>
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<tr>
<td>PETUNIA</td>
<td>Phantom, Pinstripe</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>
<td>0-1</td>
</tr>
<tr>
<td>PETUNIA (DOUBLE)</td>
<td>Vogue™</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>
<td>0-1</td>
</tr>
<tr>
<td>PETUNIA (TRAILING)</td>
<td>Rhythm And Blues</td>
<td>5.8-6.2</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>
<td>0-1</td>
</tr>
<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>
</tr>
<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>
<td>175-225</td>
<td>1-2</td>
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<tr>
<td>PURSLANE</td>
<td>Rio Grande™</td>
<td>5.8-6.2</td>
<td>5,000-10,000</td>
<td>71-79°F (22-26°C)</td>
<td>62-67°F (17-19°C)</td>
<td>225-300</td>
<td>1-2</td>
</tr>
<tr>
<td>PLECTRANTHUS Nico, Nicolleta, Variegata</td>
<td>PLECTRANTHUS Mona Lavender</td>
<td>PETUNIA (TRAILING) Rhythm And Blues</td>
<td>PETUNIA (DOUBLE) Vogue™</td>
<td>PETUNIA Lime Light</td>
<td>PETUNIA Cha-Ching Cherry</td>
<td>PETUNIA Cascadias™ Indian</td>
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<td>-----------------------------------------</td>
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<td>4 TO 5-IN. (10 TO 13-CM) POTS OR BASKETS</td>
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<td>PESTS</td>
<td>DISEASES</td>
<td>COMMENTS</td>
<td></td>
</tr>
<tr>
<td>1 ppm, 6-8 weeks</td>
<td>2-3 ppm, 7-9 weeks</td>
<td>3-5 ppm, 9-12 weeks</td>
<td>B-Nine(5) 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>Botrytis, Root rot, Tobacco Mosaic Virus</td>
<td>Cool temperatures and high light will reduce or eliminate any need for PGRs. Monitor regularly for high pH and possible iron deficiency. Flowering will be best as days lengthen in late Spring and Summer. Daylength of more than 14 hours will hasten flowering.</td>
<td></td>
</tr>
<tr>
<td>1 ppm, 5-7 weeks</td>
<td>2-3 ppm, 6-8 weeks</td>
<td>3-5 ppm, 8-11 weeks</td>
<td>B-Nine(5) 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>
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<td>Cool temperatures and high light will reduce or eliminate any need for PGRs. Monitor regularly for high pH and possible iron deficiency. Flowering will be best as days lengthen in late Spring and Summer. Daylength of more than 14 hours will hasten flowering.</td>
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<td>1 ppm, 6-8 weeks</td>
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<td>3-5 ppm, 9-12 weeks</td>
<td>B-Nine(5) 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>Botrytis, Root rot, Tobacco Mosaic Virus</td>
<td>Cool temperatures and high light will reduce or eliminate any need for PGRs. Monitor regularly for high pH and possible iron deficiency. Flowering will be best as days lengthen in late Spring and Summer. Daylength of more than 14 hours will hasten flowering.</td>
<td></td>
</tr>
<tr>
<td>1 ppm, 5-7 weeks</td>
<td>2-3 ppm, 6-8 weeks</td>
<td>3-5 ppm, 8-11 weeks</td>
<td>Generally not needed.</td>
<td>Whitefly, thrips, leafminers</td>
<td>Botrytis, Root rot, Tobacco Mosaic Virus</td>
<td>This variety is extremely sensitive to growth regulators, and is naturally well-branched and compact.</td>
<td></td>
</tr>
<tr>
<td>1 ppm, 6-8 weeks</td>
<td>2-3 ppm, 7-9 weeks</td>
<td>3-5 ppm, 9-12 weeks</td>
<td>B-Nine(5) 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. Thrips, leafminers, whitefly</td>
<td>Botrytis, Root rot, Tobacco Mosaic Virus</td>
<td>Cool temperatures and high light will reduce or eliminate any need for PGRs. Monitor pH regularly for high levels and possible iron deficiency. Flowering will be best as days lengthen in late Spring and Summer. Daylength of more than 14 hours will hasten flowering.</td>
<td></td>
<td></td>
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<tr>
<td>1 ppm, 5-7 weeks</td>
<td>2-3 ppm, 6-8 weeks</td>
<td>3-5 ppm, 8-11 weeks</td>
<td>B-Nine(5) 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>Botrytis, Root rot, Tobacco Mosaic Virus</td>
<td>Cool temperatures and high light will reduce or eliminate any need for PGRs. Monitor pH regularly for high levels and possible iron deficiency. Flowering will be best as days lengthen in late Spring and Summer. Daylength of more than 14 hours will hasten flowering.</td>
<td></td>
</tr>
<tr>
<td>1 ppm, 6-8 weeks</td>
<td>1 ppm, 7-9 weeks</td>
<td>3-5 ppm, 9-12 weeks</td>
<td>Early applications of growth regulators are required. B-Nine 1,500-2,000 ppm/Cycocel(S) 750-1,000 ppm, Bonzi 2-3 ppm drench. Apply 2-3 times early in the crop cycle.</td>
<td>Whitefly, thrips, leafminers</td>
<td>Botrytis, Root rot, Tobacco Mosaic Virus</td>
<td>This is a vigorous variety that branches well. Early growth regulator applications help with tone and branching.</td>
<td></td>
</tr>
<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(S) 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, Pythium, 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>
</tbody>
</table>

**ppp** = plants per pot  
**PPM N** = parts per million of nitrogen  
**Growing Information** = Find growing information at [BALLFLORAPLANT.COM](http://BALLFLORAPLANT.COM) or order at [BALLSEED.COM](http://BALLSEED.COM) or WEBTRACK or 800 879-BALL
### Annual Culture Guide

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<th>NO. OF PINCHES</th>
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</thead>
<tbody>
<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>
<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>SALVIA</td>
<td>Mystic Spires, Mysty, White Flame</td>
<td>5.8-6.2</td>
<td>6,000-10,000</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>SCAEVOLA</td>
<td>Blue Brilliance, Blue Fan, Bondi™, White Sparkle</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>STROBILANTHES</td>
<td>Persian Shield</td>
<td>5.8-6.2</td>
<td>3,000-6,000</td>
<td>74-79°F (23-26°C)</td>
<td>59-64°F (15-18°C)</td>
<td>175-225</td>
<td>1-3</td>
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<tr>
<td>THUNBERGIA</td>
<td>Sunny™</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>1-3</td>
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<tr>
<td>TORENIA</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>
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<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>
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<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>
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<tr>
<td>VERBENA</td>
<td>Burgundy Wink, Violet Wink</td>
<td>5.8-6.2</td>
<td>5,000-8,000</td>
<td>71-79°F (22-26°C)</td>
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<td>225-300</td>
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<tr>
<td>1 ppp, 7-9 weeks</td>
<td>1-2 ppp, 8-10 weeks</td>
<td>2-3 ppp, 10-12 weeks</td>
<td>A B-Nine 2,000-3,500 ppm and Cyocel 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>
</tr>
<tr>
<td>1 ppp, 4-8 weeks</td>
<td>2-3 ppp, 6-10 weeks</td>
<td>4-5 ppp, 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>
</tr>
<tr>
<td>1 ppp, 5-7 weeks</td>
<td>1-2 ppp, 7-8 weeks</td>
<td>3-5 ppp, 10-12 weeks</td>
<td>Generally not needed.</td>
<td>Whitefly</td>
<td>Pythium, Rhizoctonia</td>
<td>Scaevola prefers a well-drained soil. Allow the media to dry between waterings. Night temperatures lower than recommended will significantly slow the crop and lead to problems with root rot.</td>
</tr>
<tr>
<td>1 ppp, 8-10 weeks</td>
<td>3-5 ppp, 10-13 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>
<td></td>
</tr>
<tr>
<td>1 ppp, 6-8 weeks</td>
<td>1-2 ppp, 7-9 weeks</td>
<td>4-5 ppp, 10-12 weeks</td>
<td>Generally not needed.</td>
<td>Mites, whitefly, thrips</td>
<td>Botrytis</td>
<td>Thunbergia is a warm-season crop that prefers night temperatures above 60°F (15°C). Pinch regularly to shape.</td>
</tr>
<tr>
<td>1 ppp, 5-7 weeks</td>
<td>1-3 ppp, 6-8 weeks</td>
<td>3-5 ppp, 8-11 weeks</td>
<td>Generally not needed.</td>
<td>Whitefly, thrips, whitefly, spider mites</td>
<td>Botrytis</td>
<td>Torenia is a warm-season crop that prefers night temperatures above 60°F (16°C). Pinch regularly to shape.</td>
</tr>
<tr>
<td>1 ppp, 5-7 weeks</td>
<td>1-3 ppp, 7-8 weeks</td>
<td>4-5 ppp, 10-13 weeks</td>
<td>Generally not needed.</td>
<td>Whitefly, leafminers, aphids</td>
<td>Root rot</td>
<td>Regularly allow plants to dry between irrigations.</td>
</tr>
<tr>
<td>1 ppp, 5-7 weeks</td>
<td>1-3 ppp, 7-8 weeks</td>
<td>4-5 ppp, 10-13 weeks</td>
<td>Responsive to a B-Nine 2,500-3,500 ppm/Cyocel 750-1,000 ppm tank mix(S) and Florel(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. EnduraScape varieties may require more PGR use under normal conditions.</td>
</tr>
<tr>
<td>1 ppp, 5-7 weeks</td>
<td>1-3 ppp, 7-8 weeks</td>
<td>4-5 ppp, 10-13 weeks</td>
<td>Responsive to a B-Nine 2,500-3,500 ppm/Cyocel 750-1,000 ppm tank mix(S) and Florel(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 irrigations. Pinch as needed to shape.</td>
</tr>
<tr>
<td>1 ppp, 5-7 weeks</td>
<td>1-3 ppp, 7-8 weeks</td>
<td>4-5 ppp, 10-13 weeks</td>
<td>Responsive to a B-Nine 2,500-3,500 ppm/Cyocel 750-1,000 ppm tank mix(S) and Florel(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.</td>
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* ppp=plants per pot

** Perennial varieties that can be grown cold without treatment for Spring and Summer sales.
### Ball Horticultural Company Tag and Photography Policy

All finished BallFloraPlant® vegetative varieties must be sold with a Ball Horticultural Company supplied or approved plant label or tag. All materials promoting BallFloraPlant® varieties must include the following:

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

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

All images featuring Ball products are to be used for promotional materials, including but not limited to point-of-purchase items, advertising, brochures, etc. They may not be used on plant tags or containers without permission from Ball. All images loaned by Ball are copyright protected and are the property of Ball Horticultural Company, unless otherwise indicated. They are loaned to customers for promotional use only and are not to be reserved for future use. Images may not be licensed or resold. Any unauthorized use is prohibited. All loaned images must be used in connection with the associated product. The correct commercial name and variety name must be listed on all images in connection with any reproduction. For more information, please contact Ball's Image Archive.

Follow the Ball FloraPlant website for current U.S. patent information. Please see opposite page for more information.

### Policies and Licensing

#### 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 varieties may not be reproduced without authorization.

The breeder or authorized representative has the right to inspect customers’ nurseries during normal business hours to assess compliance with the restrictions on use of protected varieties.

#### Licensing

Flowering Only License terms and conditions apply to the BallFloraPlant varieties listed herein. By opening the box containing unrooted or rooted cuttings of these BallFloraPlant varieties, customers agree to these terms and conditions. A copy of the Flowering Only License is available on our website. From the main page of the BallFloraPlant website, click on the Propagation and Licensing link at the bottom of the page or enter the following web address into your browser:


A copy can also be obtained from Royalty Administration International® (RAI) by calling (800) 472-4724. RAI is our U.S. licensing agent.

#### Licensed Propagation

Please see opposite page for more information.

### Flowering-Only Terms and Conditions

- Allows for the growing and selling of “Finished Plants,” defined as plants grown in a 3-in. (7.5-cm) size pot/container or larger.
- All finished product must be sold with a Ball supplied or approved label or tag.
- Sale of rooted or unrooted cuttings to any other company or individual is strictly prohibited as is propagation and/or the taking of tip cuttings.

### Flowering-Only Varieties

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<th>Variety Name</th>
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### Impatients, Compact

- Resta® “Appletastic” Ballflora |
- Resta® “Burgery” Ballflora |
- Resta® “Deep Orange” Ballflora |
- Resta® “Lavender Orchid” Ballflora |
- Resta® “Pink Ruffles” Ballflora |
- Resta® “Purple” Ballflora |
- Resta® “Salio Red” Ballflora |
- Resta® “Sparkler Cherry” Ballflora |
- Resta® “Sparkler Hot Pink” Ballflora |
- Resta® “Starlight Pink” Ballflora |
- Resta® “Starlight Purple” Ballflora |
- Resta® “Sunrise Red” Ballflora |
- Resta® “White” Ballflora |
- Resta® “Bontita® Burgundy” Ballflora |
- Resta® “Bontita® Cherry” Ballflora |
- Resta® “Bontita® Pink” Ballflora |
- Resta® “Bontita® Rose” Ballflora |
- Resta® “Bontita® Salmon” Ballflora |
- Resta® “Bontita® Stardust Lavender” Ballflora |
- Resta® “Bontita®” Ballflora |

### Impatients, Vigorous

- SunPatiens® “Vigorous Coral” SAMP008 |
- SunPatiens® “Vigorous Lavender Splash” SAMP005 |
- SunPatiens® “Vigorous Orange” SAMP006 |
- SunPatiens® “Vigorous Orchid” SAMP003 |
- SunPatiens® “Vigorous Pink Kiss” SAMP004 |
- SunPatiens® “Vigorous Red” SAMP005 |
- SunPatiens® “Vigorous Rose Pink” SAMP002 |
- SunPatiens® “Vigorous Shells Pink” SAMP003 |
- SunPatiens® “Vigorous Sepia” SAMP006 |
- SunPatiens® “Vigorous Tropical Salmon” SAMP005 |
- SunPatiens® “Vigorous Tropical Violet” SAMP018 |
- SunPatiens® “Vigorous White Improved” SAMP010 |

### Impatiens walleriana

- Patchwork® “Cosmic Burgundy” Balacron |
- Patchwork® “Cosmic Orange” Balacron |
- Patchwork® “Peach Prisim” Balacron |
- Patchwork® “Pink Shades” Balacron

### Ipomoeas

- SolarPower “Black” Balaboite |
- SolarPower “Black Heart” Balaboite |
- SolarPower “Lime Heart” Balaboite |
- SolarPower “Lime Heart” Balaboite
Terms & Conditions of Sale

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

ACCEPTANCE OF TERMS
These terms and conditions shall govern orders for 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, within 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 does not adopt or ratify any manufacturer warranties, express or implied, and Seller shall have no liability thereunder.

LIMITATION OF REMEDY
PURCHASER’S SOLE AND EXCLUSIVE REMEDY SHALL BE REFUND OF THE PURCHASE PRICE. SELLER’S LIABILITY, WHETHER FOR BREACH OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE, PRODUCTS LIABILITY OR ANY OTHER THEORY OF LIABILITY, IS LIMITED TO THE AMOUNT OF THE PURCHASE PRICE. UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE, OR FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES.

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 shall 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, to hold 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 in accordance with the terms specified on invoice. In the event of default in the payment of any amount when due, and in addition to all other rights and remedies available to Seller, SELLER SHALL BE ENTITLED TO COLLECT A LATE CHARGE OF 2% PER MONTH (24% PER YEAR) OR THE MAXIMUM RATE ALLOWED BY LAW, WHICHEVER IS LESS, ON ALL AMOUNTS PAST DUE FROM THE DATE DUE UNTIL THE DATE PAID. A FEE OF $25.00 WILL BE CHARGED FOR ANY RETURNED CHECK, 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 here are followed. PURCHASER WILL NOT REFUSE OR RETURN GOODS, OR THE RIGHT TO FILE A CLAIM IS LOST AND PURCHASER WILL STILL BE LIABLE FOR THE MATERIAL AND THE FREIGHT. When Purchaser receives shipment: 1) Count all cartons. 2) Inspect all cartons for external damage. 3) Check for open or resealed cartons. 4) Note any damages, shortages, open or resealed cartons on the delivery receipt; the carrier’s representative must also sign the receipt. 5) Open all boxes immediately and inspect for damage such as scorched, frozen or broken plants; material shortages; etc. NOTIFY SELLER IMMEDIATELY IF A SHIPMENT IS DAMAGED. Call the Ball Traffic Department at 800 879-BALL to report the damage and receive details on what is needed to file a claim. 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 stick 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 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 varieties may not be reproduced without authorization. The breeder or authorized representative has the right to inspect Purchasers’ nurseries during normal business hours to assure compliance with the restrictions on use of protected varieties.

TRADEMARKS
® denotes a U.S. registered trademark and ™ denotes a trademark of Ball Horticultural Company, unless otherwise indicated.

SALES LIMITATIONS
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 “SPECIALY 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 2022

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