Check out our new potted plants category, featuring NEW Mandala™, the most uniform Kalanchoe series in habit and timing, for your growing success!

**NEW** Mandala™
Double Orange Kalanchoe

Compact, heat-tolerant series needs no pinch or PGRs and flowers 2 weeks earlier than the competition, never missing a beat of color.

**NEW** Beats™
Verbena Series

**NEW** Beats™
Purple+White Verbena
NEW FOR 2022

Explore the widest selection of Sky Petunias, featuring stellar patterns with the best stability and reliability on the market – light years ahead of the rest! Available in two new colors for 2022.

NEW Starlet™
Midnight Sky Petunia

SelectaNorthAmerica.com or 800 879-2255
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Terminology

22 Upgraded Variety
Varieties noted as 22 represent a significant improvement compared to last year’s genetics.

HIGH DENSITY
Varieties are especially suitable for high-density production and quick-turning crops. Mounding, compact habit, easy-to-control vigor and early flowering allow for high-density growing and shipping.

SUN LOVER
Varieties are especially suitable for hot areas and growing in warmer temperatures.

NO PINCH
Varieties mean savings on labor costs, less sanitary risk and shorter crop times.

USDA Hardiness Zones
Information on USDA Hardiness Zones for our perennials is provided on a separate line and in bold type below the description of each variety, for your convenience.

Vigor
1 low
2 low-medium
3 medium
4 medium-high
5 high

Flowering Time
1 very early
2 early
3 standard

Heat Tolerance
A excellent
B very good
C good

Online resources

Product Selection Made Simple
On the Selecta One website, we have streamlined the organization of our Trixi® Combo program to aid in your selection process – with breakouts across flowering time, mono or multi-species combos, color grouping and of course what’s new!

To view these product selection tools as well as additional information on our entire assortment plus growing recommendations, visit SelectaNorthAmerica.com.
Trixi® Combos
COMBOS THAT INSPIRE

Provide color inspiration for the at-home gardener with Trixi® Combos! In this assortment, you will find a range of complementary colors, textures and patterns that grow well together. Our mono combos demonstrate the strength and performance of a single class. This year, NEW Beats™ Verbena brings a compact, heat-tolerant option to the program with romantic NEW Trixi Heartbeat and patriotic NEW Trixi Little Liberty.

### MONO COMBOS

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Multi-species combos showcase an outstanding color and texture contrast that is still easy to produce. Our ever-expanding lineup features combos with top-selling varieties, stellar Sky Petunias, double bicolor calibrachoas exclusive to Selecta One, and more. With Trixi, there’s a combo for any occasion!

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SelectaNorthAmerica.com or 800 879-2255
Trixi Combos – a Spectrum of Color for Every Occasion

Daisy Falls

Daisy Falls™ Pink Osteospermum
Daisy Falls™ Purple Osteospermum
Daisy Falls™ White Amethyst Osteospermum

○ 4 ○ 1 ○ B

VERY EARLY

Daisy Dance

MiniFamous® Neo Orange+Red Eye Calibrachoa
Daisy Falls™ Purple Osteospermum

○ 4 ○ 1 ○ B

VERY EARLY

Popular Demand

MiniFamous® Neo Double Deep Yellow Calibrachoa
MiniFamous® Uno Violet Star Calibrachoa
Daisy Falls™ Purple Osteospermum

○ 4 ○ 1 ○ B

VERY EARLY

SelectaNorthAmerica.com or 800 879-2255
**Twinkle Star**
Big Falls™ Pearl Bacopa
Namid™ Early Yellow Bidens
MiniFamous® Neo Dark Blue Calibrachoa

**Written in the Stars**
MiniFamous® Neo Deep Yellow Calibrachoa
MiniFamous® Uno Violet Star Calibrachoa

**Out of the Blue**
Namid™ Early Yellow Bidens
Magadi™ Dark Blue Lobelia
Lascar™ White Verbena

**Flirtini**
MiniFamous® Neo Double Amethyst Calibrachoa
MiniFamous® Neo Double Lemon Calibrachoa
MiniFamous® Uno Double Light Pink Calibrachoa
**Cajun Flare 22**

Namid™ Early Yellow Bidens
Starlet™ Blueberry Vein Petunia
Lascar™ Burgundy Verbena

VERY EARLY

**Night Watch**

Namid™ Special Yellow Bidens
Starlet™ Velvet Petunia
Blues™ Red Verbena

**Bolero**

MiniFamous® Neo Dark Blue Calibrachoa
MiniFamous® Neo Deep Yellow Calibrachoa
MiniFamous® Neo Vampire Calibrachoa

SelectaNorthAmerica.com or 800 879-2255
Crazy for Crayons
Namid™ Early Yellow Bidens
MiniFamous® Neo Dark Blue Calibrachoa
Lascar™ Burgundy Verbena

Very Early

La Bomba
Namid™ Early Yellow Bidens
MiniFamous® Neo Dark Blue Calibrachoa
Headliner™ Red Petunia

Pop the Bubbly
Namid™ Early Yellow Bidens
Starlet™ Yellow Petunia
Lascar™ White Verbena
TOP SELLER

Double Date
MiniFamous® Neo Double Dark Blue Calibrachoa
MiniFamous® Neo Double Deep Yellow Calibrachoa
MiniFamous® Uno Double Red Calibrachoa

Gold & Bold
MiniFamous® Neo Dark Blue Calibrachoa
MiniFamous® Neo Deep Yellow Calibrachoa
MiniFamous® Neo Purple Calibrachoa
Lollipop
- MiniFamous® Neo Blue Calibrachoa
- MiniFamous® Neo Deep Yellow Calibrachoa
- MiniFamous® Neo Pink Calibrachoa

Lip Sync
- MiniFamous® Uno Yellow Calibrachoa
- Magadi™ Dark Blue Lobelia
- Headliner™ Lipstick Petunia

Charged Up Cherry! 22
- NEW MiniFamous® Neo Pink Hawaii Calibrachoa
- MiniFamous® Uno Double Lemon Calibrachoa
- Blues™ Magenta+Eye Verbena

TOP SELLER

SelectaNorthAmerica.com or 800 879-2255
Who Knew Orleans 22
NEW MiniFamous® Uno Yellow+Red Vein 22 Calibrachoa
Headliner™ Red Petunia
Lascar™ Mango Orange Verbena

Sunset
MiniFamous® Neo Deep Orange Calibrachoa
MiniFamous® Neo Vampire Calibrachoa
MiniFamous® Uno Yellow Calibrachoa

TOP SELLER

SelectaNorthAmerica.com or 800 879-2255
TRIXI® COMBOS

**Double The Heat**
- MiniFamous® Neo Double OrangeTastic Calibrachoa
- MiniFamous® Uno Double Red Calibrachoa

**Batting Eyes 22**
- MiniFamous® Neo Orange+Red Eye Calibrachoa
- MiniFamous® Neo Salmon Pink+Eye Calibrachoa
- **NEW** MiniFamous® Uno Yellow+Red Vein 22 Calibrachoa

**Caribbean Cocktail**
- MiniFamous® Neo Blue Calibrachoa
- MiniFamous® Neo Orange+Red Eye Calibrachoa
- MiniFamous® Neo Vampire Calibrachoa

**TOP SELLER**

SelectaNorthAmerica.com or 800 879-2255
Geisha Girl
MiniFamous® Neo Salmon Pink+Eye Calibrachoa
Headliner™ Red Petunia
Lascar™ Red Rose Verbena

NO PINCH, HIGH DENSITY
**Top Seller**

**Strawberry Shortcake**

- Big Falls™ White Bacopa
- MiniFamous® Neo Light Pink+Eye Calibrachoa
- Lascar™ Burgundy Verbena

*Very Early*

---

**Two to Tango**

- MiniFamous® Neo Double Purple Calibrachoa
- MiniFamous® Uno Double PinkTastic Calibrachoa

*Very Early*
**TOP SELLER**

- **Cherry Kiss**
- MiniFamous® Neo Salmon Pink+Eye Calibrachoa
- Headliner™ Lipstick Petunia
- Blues™ Light Pink+Eye Verbena

- **热于你粉**
- Headliner™ Lipstick Petunia
- Headliner™ Pink Vein Petunia
- Headliner™ White Petunia

- **你粉了我的兴趣**
- Gisele® Hot Pink Phlox
- Gisele® Pink Phlox
- Gisele® White Phlox

SelectaNorthAmerica.com or 800 879-2255
TRIXI® COMBOS

Raspberry Sorbet 22
- MiniFamous® Uno White Calibrachoa
- Starlet™ Magenta Star Petunia
- Blues™ Magenta+Eye Verbena

Twice As Nice
- MiniFamous® Neo Double Dark Blue Calibrachoa
- MiniFamous® Neo Double Purple Calibrachoa
- MiniFamous® Uno Double Red Calibrachoa
**Party Favor 22**

MiniFamous® Neo White 22 Calibrachoa

NEW MiniFamous® Neo White 22 Calibrachoa

**Double Take**

MiniFamous® Uno Double Dark Blue Calibrachoa
MiniFamous® Uno Double PinkTastic Calibrachoa
MiniFamous® Uno Double Red Calibrachoa

VERY EARLY

**Chemical Attraction 22**

MiniFamous® Uno White Calibrachoa
Magadi™ Electric Purple Lobelia
Headliner™ Electric Purple Sky Petunia

VERY EARLY

SelectaNorthAmerica.com or 800 879-2255
NEW

Berry Daring
MiniFamous® Neo Dark Blue Calibrachoa
MiniFamous® Neo Purple Calibrachoa
MiniFamous® Neo Salmon Pink+Eye Calibrachoa

3 2 B

TOP SELLER

Starspinner
MiniFamous® Uno Pink Star Calibrachoa
MiniFamous® Uno Violet Star Calibrachoa

2 2 B

Wild Berry 22
MiniFamous® Neo Blue Calibrachoa
MiniFamous® Neo Purple Calibrachoa
NEW MiniFamous® Neo White 22 Calibrachoa

3 2 B

SelectaNorthAmerica.com or 800 879-2255
**Purple Lace**

New

MiniFamous® Neo Dark Blue Calibrachoa
MiniFamous® Neo Double PlumTastic Calibrachoa
Blues™ Lavender+Eye Verbena

**Break the Ice**

New

MiniFamous® Neo Blue Calibrachoa
MiniFamous® Neo Double Silver Blue Calibrachoa
MiniFamous® Neo Violet Ice Calibrachoa

SelectaNorthAmerica.com or 800 879-2255
TRIXI® COMBOS

Crystallize
Headliner™ Crystal Sky Petunia
Headliner™ Night Sky® Petunia

On the Double
MiniFamous® Uno Double Dark Blue Calibrachoa
MiniFamous® Uno Double PlumTastic Calibrachoa

TOP SELLER
SelectaNorthAmerica.com or 800 879-2255
Sky's the Limit
Headliner™ Night Sky® Petunia
Headliner™ Sky Blue Petunia
Headliner™ White Petunia

Purple with a Purpose 22
MiniFamous® Neo Dark Blue Calibrachoa
MiniFamous® Neo Light Blue Calibrachoa
NEW MiniFamous® Neo White 22 Calibrachoa
**TRIXI® COMBOS**

**Blueberry Parfait**
- **Big Falls™** Pearl Bacopa
- **MiniFamous® Neo** Light Blue Calibrachoa
- **Blues™** Light Pink+Eye Verbena

V 4 2 B

**Walk on a Cloud**
- **Magadi™ Basket** White Lobelia
- **Starlet™** White Petunia
- **Lascar™** White Verbena

V 2 2 C

**Starlight Starbright**
- **MiniFamous® Neo** Blue Calibrachoa
- **Starlet™** Lavender Star Petunia
- **BeBop™** Lavender Verbena

V 2 2 C

SelectaNorthAmerica.com or 800 879-2255
Old Glory 22
MiniFamous® Neo Dark Blue Calibrachoa
MiniFamous® Neo Vampire Calibrachoa
NEW MiniFamous® Neo White 22 Calibrachoa

Ball Game
Headliner™ Blue Petunia
Headliner™ Red Petunia
Headliner™ White Petunia

TOP SELLER
SelectaNorthAmerica.com or 800 879-2255
TRIXI® COMBOS

Little Liberty
NEW Beats™ Blue Verbena
NEW Beats™ Red Verbena
NEW Beats™ White Verbena

Liberty Bell
MiniFamous® Neo Dark Blue Calibrachoa
Headliner™ Red Petunia
Lascar™ White Verbena

TOP SELLER

SelectaNorthAmerica.com or 800 879-2255

TRIXI 25
Starting with TrixiLiner

After their arrival, open the boxes and plant TrixiLiner as soon as possible. TrixiLiner can be temporarily stored in the trays. Take trays out of the box and place them on a table in the greenhouse with sufficient light and temperature. Avoid keeping them in too harsh a climate, as this may negatively influence rooting and branching after transplant.

Growing On

Scheduling: TrixiLiner is a quick-to-finish crop and should not be started too early. Consider the climate for your specific area and how it may influence scheduling; know your desired sales date. Depending on the time of the season, calculate for quarts and 6-inch pots with 5 to 7 weeks using 1 plant per pot. For gallons and 8-inch pots, use 2 plants per pot and calculate with 5 to 7 weeks as well. For 10-inch baskets, use 2 to 3, and for 12-inch baskets, use 3 to 4 plants per pot and calculate with 8 to 12 weeks, depending on the time of the season and the desired size.

Preparation: Have the growing area ready prior to arrival of TrixiLiner liners. Thoroughly clean and disinfect the area, and use only new pots and fresh, high-quality media. If you notice any problems upon arrival, make sure to notify your supplier immediately.

Media: Choose a well-drained, aerated, peat-moss-based media.

pH: 5.4-5.8; pH levels above 6.0 may result in deficiencies (calibrachoa are in most mixes).

Media EC: 1.0-1.5 to start with; high salt levels may result in slower and irregular rooting.

Getting Ready: Moisten finish media before transplanting, but avoid saturating the media. Best, if possible, to water the pots the day before planting. Before transplanting, thoroughly water the TrixiLiner until media is saturated.

Transplanting: Plant into the finish container by dibbling a hole. Plant the TrixiLiner deep enough so the rooting media is level with the media in the container. Avoid planting too deep, as this will promote diseases, and avoid planting too high, as this will dry out the cutting much quicker.

Temperature: After transplanting TrixiLiner, keep the temperature up. Maintain night temperatures of 61-64°F (16-18°C) and day temperatures of 68-72°F (20-22°C) until plants have nicely branched, covering almost all the media surface of your pot, and have rooted well into the new media. Afterwards, lower temperatures to 55-60°F (13-16°C) and day temperatures of 64-72°F (18-22°C). Cool morning drops will result in a better plant habit and nicer colors. Drop temperature 2 hours before sunrise by 8-12°F (4-6°C) until about 2 hours after sunrise. Flowering will not be delayed as long as the average day temperature is maintained consistently. In order to keep the average day temperature up during cold and cloudy days, you may want to raise the night temperature. Toward the end of the crop you can lower the temperature further to 55-60°F (13-16°C) day and night.

Humidity: Below 70%.

Ventilation: Proper venting is one of the most important tools for preventing diseases (especially botrytis). Horizontal air flow fans will greatly improve results, especially in areas where venting during the Winter is difficult.

Light: High light levels promote compact growth. Provide 4,000 - to maximum 5,000 - foot candles during the main growing period.

Watering: Start with a moist media (wet, but not saturated); slightly water TrixiLiner after transplant, but avoid saturation of media. Avoid excessive irrigation until after roots have established, keep the media constantly moist (but not saturated), and avoid going from one extreme to the other (from dry to wet and so on). Water in the morning so foliage is dry during the night. Excessive watering will leach out nutrients and raise the pH, resulting in nutrition deficiencies (especially iron = Fe) and root diseases. Don’t allow plants to dry out. Drought stress will increase crop time and may raise the salt level, which may burn the roots, promoting root diseases.

Fertilizer: Start a constant feed program as soon as roots show with 200-250 PPM N, using a well-balanced fertilizer, including minor elements (especially Fe). Acid-based fertilizers will help to maintain pH levels below 6.0. Additional iron may be needed if pH levels rise above 6.0. Provide sufficient drain to avoid excess salt accumulation. Optimum media EC levels are 1.8-2.2. Avoid high salt levels and fertilize in the morning. High salt levels or applications during high light levels and heat may result in burns. Use slow-release fertilizers to keep plants green at retail and at consumer.

Pinching: TrixiLiner is pinched and a 2nd pinch is recommended. The 2nd pinch will improve branching and help to better fill larger pots and containers. Avoid stretch, which leads to poor branching and an unstable plant (and you may have to pinch another time).

Spacing: Start pot tight (2 finger spacing!) and space before plants start to touch each other. Provide enough space so plants don’t grow into each other, reducing the overall quality. An additional pinch correcting late spacing will extend the crop time! Hanging the baskets will improve the overall look.

PGR: Sprays with 2,500 PPM B-Nine or 5-20 PPM Sumagic can start about a week after transplant. Drenching TrixiLiner works very well. For pots, use 0.25-0.5 PPM Sumagic as a drench the moment side shoots are about 1 inch long. Apply the drench before lowering the temperature of the crop. Baskets will get 1 or 2 more sprays when side shoots are about 1 inch long. Drench baskets with 2-4 PPM Bonzi when plants reach about 50-75% of the desired size. More spray application or a second drench application can be applied if necessary. For very vigorous mixes, increasing the drench rates is recommended. Late PGR applications may delay the crop, especially when using B-Nine or Florel.

Pests and Diseases: Aphids (TMV virus vector), Thrips (TOSPO virus vector), Pythium, Botrytis, and Thielaviopsis. Always follow the labels.
Annuals
Big Falls™ Bacopa
*Sutera grandiflora*

- Excellent branching
- Trailing habit
- Large blooms
- Short crop time

**Height:** 8 to 12 in. (20 to 30 cm)
**Spread:** 8 to 12 in. (20 to 30 cm)
**Ideal Pot Sizes:** Packs, Quarts, Gallons
**Uses:** Pots, Baskets, Combos

**SUN LOVER**

Compact Double Apricot Begonia
*Begonia boliviensis*

- Compact, upright *boliviensis*
- Strong performer in small pots
- Attractive, two-toned blooms
- Dark, serrated foliage

**Height:** 6 to 8 in. (15 to 20 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**Ideal Pot Sizes:** Gallons, Gallons or Larger
**Uses:** Pots, Baskets

**SUN LOVER**

Compact Marshmallow Begonia
*Begonia cultivars*

- Compact, upright *boliviensis*
- Strong performer in small pots
- Attractive, well-branched habit
- An abundance of two-toned blooms

**Height:** 6 to 8 in. (15 to 20 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**Ideal Pot Sizes:** Gallons, Gallons or Larger
**Uses:** Pots, Baskets

**SUN LOVER**
**Mistral® Begonia**

*Begonia boliviensis*

- Excellent branching on a trailing habit
- The BEST begonia for hanging baskets
- Large, eye-catching flowers
- Heat and drought tolerant

**Height:** 10 to 12 in. (25 to 30 cm)
**Spread:** 14 to 16 in. (36 to 41 cm)
**Ideal Pot Sizes:** Gallons, Gallons or Larger
**Uses:** Baskets

**SUN LOVER**

- **Dark Red**
  - 4 2 B
- **Double Orange**
  - 2 2 B
- **Orange**
  - 3 2 B
- **Pink**
  - 3 2 B
- **Yellow**
  - 2 2 B

SelectaNorthAmerica.com or 800 879-2255
Namid™ Bidens
Bidens ferulifolia

- Fills all your bidens needs
- Strong, well-branched varieties
- Controlled growth
- Long flower performance

**Height:** 6 to 8 in. (15 to 20 cm)  
**Spread:** 12 to 20 in. (30 to 51 cm)

**Features big blooms and excellent branching. Needs minimal PGRs!**

**Ideal Pot Sizes:**  
- Packs, Quarts, Gallons  
- **Uses:** Pots

**Ideal Pot Sizes:**  
- Quarts, Gallons, Gallons or Larger  
- **Uses:** Baskets, Combos

**SelectaNorthAmerica.com or 800 879-2255**
Mohave™ Bracteantha
*Bracteantha bracteata*

- Blooms from Spring to Fall
- Superior branching; mounding habit
- Big, brilliant flowers
- Perfect for mixes

**Height:** 14 to 16 in. (36 to 41 cm)
**Spread:** 14 to 16 in. (36 to 41 cm)
**Ideal Pot Sizes:** Quarts, Gallons, Gallons or Larger
**Uses:** Pots, Baskets

**HIGH DENSITY, NO PINCH**

- Apricot
- Basket Yellow
- Dark Red
- Orange
- Purple Red
- White
- Yellow

Mohave Yellow

SelectaNorthAmerica.com or 800 879-2255
MiniFamous® Uno Double PinkTastic Calibrachoa
Calibrachoa

MiniFamous® fulfills all your calibrachoa needs with early, compact Uno and medium-vigor Neo. This outstanding collection offers classic core colors, vibrant patterns and Selecta One-exclusive Tastic double bicolors.

A few of our standout introductions this year include NEW Uno Double Orange Flame and NEW Neo Double Red. Plus, NEW Neo Pink Hawaii will turn heads at retail with raspberry-colored blooms and a big yellow star.
MiniFamous®

Uno Calibrachoa

*Calibrachoa hybrida*

- Early-to-finish, medium-compact series
- Uniformity in flower timing
- Classic core colors, doubles and stars
- Screened for powdery mildew resistance

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

**Ideal Pot Sizes:** Packs, Quarts, Gallons, Gallons or Larger

**Uses:** Pots, Baskets, Combos

**HIGH DENSITY**

MiniFamous
Uno Pink Strike

Double PinkTastic

Double PlumTastic

Double Red

Double Dark Blue

SelectaNorthAmerica.com or 800 879-2255

CALIBRACHOA
ANNUALS

Double Orange Flame
Double Close Up
Double Light Pink

V2 1 A
V2 2 A B
V2 3 A

NEW
NEW
NEW

Yellow+Red Vein 22

V2 1 A

V3 2 A

V2 3 A

Double Lemon

V3 1 B

V2 3 A

V3 1 A

Double White+Pink Whirl

V2 1 B

V3 2 A

V2 3 A

Double White

V2 1 A

V3 2 A

V2 3 A

Red

V2 3 A

V1 1 A

V3 1 A

Dark Blue

V1 1 A

V3 2 B

V4 1 A

Pink Star

V3 1 A

V2 1 A

V3 1 A

V2 1 A

V3 1 A

V5 1 A

Pink Strike

V3 2 A

V2 1 A

V3 1 A

SelectaNorthAmerica.com or 800 879-2255

CALIBRACHOA 35
MiniFamous®
Neo Calibrachoa
Calibrachoa cultivars

- Uniform, semi-trailing habit
- Medium vigor
- Large, single and double blooms
- Exclusive double bicolors

Height: 8 to 12 in. (20 to 30 cm)
Spread: 12 to 15 in. (30 to 38 cm)
Ideal Pot Sizes: Quarts, Gallons, Gallons or Larger
Uses: Pots, Baskets, Combos

NEW MiniFamous Neo Pink Hawaii

Double PlumTastic 🌸 3 🌹 2 🌿 A
Double OrangeTastic 🌸 3 🌹 2 🌿 A
Double Deep Yellow 🌸 3 🌹 3 🌿 A
Double Dark Blue 🌸 3 🌹 3 🌿 B
Convolvulus
*Convolvulus sabatius*

- Easy care
- Drought and heat tolerant
- Compact, trailing habit

**Height:** 10 to 14 in. (25 to 36 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**Ideal Pot Sizes:** Quarts, Gallons
**Uses:** Pots, Landscapes

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Cuphea
*Cuphea hyssopifolia* “Mexican Heather”

- Fine, fernlike foliage
- Plethora of small blooms
- Heat loving and very easy to grow

**Height:** 12 to 16 in. (30 to 41 cm)
**Spread:** 16 to 18 in. (41 to 46 cm)
**Ideal Pot Sizes:** Quarts, Gallons
**Uses:** Pots, Landscapes

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Loreen™ White
*Euphorbia hypericifolia*

- Excellent branching
- Dense flowering
- Eye-catching displays at retail

**Height:** 10 to 12 in. (25 to 30 cm)
**Spread:** 12 to 14 in. (30 to 36 cm)
**Ideal Pot Sizes:** Packs, Quarts, Gallons
**Uses:** Pots, Combos

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SelectaNorthAmerica.com or 800 879-2255
Dahlia

Selecta One offers diversity in dahlias across five series, including NEW Dahlita™, our compact, fastest-to-flower option! The lineup also includes Dahlietta® for quart pots; medium, dark-leaf City Lights™ and medium, green-leaf Dalaya® for gallons; and large, double-flowered Venti™ to fill your gallons or larger. One variety you won’t want to miss is our top-selling Dalaya Fireball, a bright orange color on a novel anemone flower form.
Dahlita™ Yellow Dahlia
**Dahlita™ Dahlia**

*Dahlia pinnata*

- Most compact, fastest-to-flower dahlia
- Early sales, as soon as February 14
- Abundance of small, long-lasting blooms
- Versatile and space efficient

**Height:** 8 to 10 in. (20 to 25 cm)
**Spread:** 8 to 10 in. (20 to 25 cm)
**Ideal Pot Sizes:** Packs, Quarts
**Uses:** Baskets, Combos, Color Bowls

**HIGH DENSITY**

![Dahlita Bright Red](image)

**Colors:**
- Bright Red
- Purple+White Eye
- Red+Yellow Eye
- Rose Pink
- White
- Yellow
Dahlietta® Dahlia

*Dahlia pinnata*

- Uniform series for early sales
- Flowers in as little as 7 weeks
- Wide range of colors and patterns
- Best-in-class, easy-to-grow assortment

**Height:** 10 to 12 in. (25 to 30 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**Ideal Pot Sizes:** Quarts, Gallons
**Uses:** Pots

*HIGH DENSITY*
NEW City Lights™ Orange Dahlia
City Lights™ Dahlia  
*Dahlia hybrida*

- Dark leaves contrast bright blooms  
- Habit and vigor match Dalaya®  
- Magnet for butterflies and birds  
- Well-branched garden powerhouse

Height: 12 to 14 in. (30 to 36 cm)  
Spread: 12 to 14 in. (30 to 36 cm)  
Ideal Pot Sizes: Gallons, Gallons or Larger  
Uses: Pots, Landscapes

**NEW**

- **Neon**  
  3 3  A

- **Orange**  
  4  2  A

- **Golden Yellow**  
  3  2  A

- **Lavender Pink**  
  3  2  A

- **Purple**  
  3  3  A

- **Red**  
  3  2  A

City Lights  
Golden Yellow

SelectaNorthAmerica.com or 800 879-2255
Dalaya® Dahlia
Dahlia hybrid

- Green leaves
- Big blooms; exotic bicolors
- Top choice for the garden
- Well-branched, exceptional habit

Height: 12 to 16 in. (30 to 41 cm)
Spread: 12 to 14 in. (30 to 36 cm)
Ideal Pot Sizes: Gallons, Gallons or Larger
Uses: Pots, Landscapes

SUN LOVER

Dalaya Raspberry
Venti™ Passion Fruit Dahlia
Venti™ Dahlia

*Dahlia pinnata*

- Our most vigorous dahlia series
- Core colors and bicolors on double blooms
- More controlled habit than competition
- Top pick for “thriller” in combos

**Height:** 16 to 18 in. (41 to 46 cm)
**Spread:** 14 to 16 in. (36 to 41 cm)
**Ideal Pot Sizes:** Gallons, Gallons or Larger
**Uses:** Pots, Landscapes

**SUN LOVER**

Golden Yellow

Lemon

Light Rose

Passion Fruit

Pink+White Eye

Red+White

Royal Purple

Tequila Sunrise

White

SelectaNorthAmerica.com or 800 879-2255

DAHLIA
Bellinto™ Fuchsia

*Fuchsia cultivars*

- Day neutral
- Free flowering
- Easy to grow
- Trailing habit

**Height:** 8 to 16 in. (20 to 41 cm)
**Spread:** 10 to 14 in. (25 to 36 cm)

**Ideal Pot Sizes:**
- Gallons
- Gallons or Larger

**Uses:**
- Pots, Baskets
- Baskets

**Ideal Pot Sizes:**
- Gallons, Gallons or Larger

**Uses:**
- Baskets

- **Compact Red+White**
- **Red+White**
- **Compact Red+Violet**
- **Red+Blue**

**Compact Vigor**
- Trailing

**Medium Vigor**
- Trailing

Select a North America or 800 879-2255
**Piccadilly™** Diascia

*Diascia cultivars*

- Early-flowering, compact plants
- Large flowers on short stems
- Performs best in cool weather
- Extended color range

**Height:** 7 to 9 in. (18 to 23 cm)
**Spread:** 8 to 10 in. (20 to 25 cm)
**Ideal Pot Sizes:** Quarts, Gallons
**Uses:** Pots, Baskets, Combos

**HIGH DENSITY**

- **Dark Salmon**
  - Mounded
  - 3
  - 1
  - B

- **Denim Blue**
  - Mounded
  - 3
  - 2
  - B

- **Dark Orange**
  - Mounded
  - 3
  - 1
  - B

- **Dark Red**
  - Mounded
  - 3
  - 1
  - B

- **Pink**
  - Mounded
  - 3
  - 1
  - B

- **White**
  - Mounded
  - 3
  - 1
  - B

- **Appleblossom**
  - Mounded
  - 3
  - 1
  - B

SelectaNorthAmerica.com or 800 879-2255
Super Moon Red Zonal Geranium
Geranium

Selecta One offers a well-rounded geranium selection backed by leading European breeding and production from our consistent, reliable farm in Kenya. Choose from zonal, ivy and interspecific geraniums, available in a wide range of colors that work great in containers, combos, hanging baskets and the landscape. Plus, our sizing chart will help you find the best options for your program.
Moonlight™ Zonal Geranium

*Pelargonium x hortorum*

- Dark-foliage, compact, uniform series
- Solution for pot-tight production
- Early flowering; 3-4 flowers at first flush
- Large blooms on an upright plant

**Height:** 10 to 12 in. (25 to 30 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**Ideal Pot Sizes:** Quarts, Gallons, Gallons or Larger
**Uses:** Pots, Landscapes

NO PINCH
Sunrise™ Zonal Geranium

*Pelargonium x hortorum*

- Green-leaf, medium-vigor plant
- Large-flowered series blooms early
- Superior color range
- Upright habit

**Height:** 12 to 14 in. (30 to 36 cm)
**Spread:** 12 to 14 in. (30 to 36 cm)
**Ideal Pot Sizes:** Quarts, Gallons, Gallons or Larger
**Uses:** Pots, Landscapes

**NO PINCH**

Rose+Big Eye
强壮	强壮	强壮

Pink+Big Eye
强壮	强壮	强壮

Sunrise Orange

SelectaNorthAmerica.com or 800 879-2255
Super Moon Red
Zonal Geranium

*Pelargonium x hortorum*

- Large-flowered zonal
- Dark red blooms
- Very dark stems provide contrast
- Strong, vigorous, heat-tolerant plant

**Height:** 12 to 18 in. (30 to 46 cm)
**Spread:** 10 to 14 in. (25 to 36 cm)
**Ideal Pot Sizes:** Gallons, Gallons or Larger
**Uses:** Pots, Landscapes
Marcada™
Interspecific Geranium

*Pelargonium cultivars*

- Strong interspecific with an ivy look
- More heat tolerant
- Better flower retention
- Less sensitive to oedema

**Height:** 12 to 16 in. (30 to 41 cm)
**Spread:** 12 to 18 in. (30 to 46 cm)
**Ideal Pot Sizes:** Gallons, Gallons or Larger
**Uses:** Pots, Baskets, Combos

SelectaNorthAmerica.com or 800 879-2255
Royal™ Ivy Geranium

*Pelargonium peltatum*

- Early flowering for quick turns
- High oedema resistance for clean foliage
- Double-flowered, trailing ivy
- Medium-vigor, well-branched habit

**Height:** 10 to 12 in. (25 to 30 cm)
**Spread:** 14 to 18 in. (36 to 46 cm)
**Ideal Pot Sizes:** Gallons or Larger
**Uses:** Baskets, Combos

**NO PINCH**

- **Hot Pink**
- **Pink Ice**
- **Dark Red**
- **Blue**
- **Brilliant Red**
- **Candy Cane®**
- **Scarlet Red**
- **Dark Burgundy**
- **Light Pink**
- **White**

SelectaNorthAmerica.com or 800 879-2255
Glacier White
Ivy Geranium
*Pelargonium peltatum*

- Stands up to the heat
- Single-flowered ivy
- Unmatched performance in baskets and window boxes

**Height:** 8 to 10 in. (20 to 25 cm)
**Spread:** 14 to 24 in. (36 to 61 cm)
**Ideal Pot Sizes:** Gallons or Larger
**Uses:** Baskets, Combos
**Balcon Ivy Geranium**  
*Pelargonium peltatum*

- Large, colorful blooms
- Heat-tolerant, trailing ivy
- Cascading baskets and window boxes
- Self-cleaning; stays fresh all Summer

**Height:** 8 to 10 in. (20 to 25 cm)  
**Spread:** 14 to 24 in. (36 to 61 cm)  
**Ideal Pot Sizes:** Gallons or Larger  
**Uses:** Baskets, Combos

**NO PINCH**

- Ice Dance Pink
  - 4 2 A
- Light Purple
  - 4 2 A
- Pink
  - 4 2 A
- Red
  - 4 2 A
- Shocking Pink
  - 4 2 A

---

**Decora Ivy Geranium**  
*Pelargonium peltatum*

- Large, colorful blooms
- Heat-tolerant, trailing ivy
- Cascading baskets and window boxes
- Unique variegated foliage

**Height:** 8 to 10 in. (20 to 25 cm)  
**Spread:** 14 to 24 in. (36 to 61 cm)  
**Ideal Pot Sizes:** Gallons or Larger  
**Uses:** Baskets, Combos

**NO PINCH**

- Light Purple
  - 2 2 A
- Pink
  - 3 2 A
- Red
  - 4 2 A
- Shocking Pink
  - 3 2 A

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SelectaNorthAmerica.com or 800 879-2255
Silver Helichrysum  
*Helichrysum italicum*

- Dwarf helichrysum  
- Superior branching; drought tolerant  
- Soft, silver foliage accent plant  
- Low maintenance; not overly aggressive

**Height:** 8 to 14 in. (20 to 36 cm)  
**Spread:** 6 to 14 in. (15 to 36 cm)  
**USDA Hardiness Zone:** 7a to 7b  
**Ideal Pot Sizes:** Packs, Quarts, Gallons  
**Uses:** Pots

*NO PINCH*
**Variegata** *Glechoma*

*Glechoma hederacea*

- Variegated, trailing perennial
- Excellent component in mixes
- Works well as a groundcover

**Height:** 4 to 6 in. (10 to 15 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**Ideal Pot Sizes:** Quarts, Gallons, Gallons or Larger
**Uses:** Pots, Baskets, Combos, Landscapes

**SUN LOVER**

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**Marino™**

*Heliotrope*

*Heliotropium arborescens*

- Superbly scented
- Cuttings ship reliably
- Easy to grow
- Upright habit

**Height:** 10 to 14 in. (25 to 36 cm)
**Spread:** 12 to 18 in. (30 to 46 cm)
**Ideal Pot Sizes:** Quarts, Gallons
**Uses:** Pots, Combos, Landscapes

**HIGH DENSITY**

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**Muehlenbeckia**

*Muehlenbeckia complexa*

- Spiller foliage plant
- Glossy, dark green, rounded leaves
- Great accent plant or groundcover
- Low maintenance; drought tolerant

**Height:** 4 to 6 in. (10 to 15 cm)
**Spread:** 18 to 24 in. (46 to 61 cm)
**Ideal Pot Sizes:** Packs, Quarts, Gallons
**Uses:** Pots, Baskets, Combos, Landscapes
Goldilocks *Lysimachia*

*Lysimachia nummularia*

- Low-care, trailing plant
- Lime green leaves turn iridescent in sun
- Great mixed container component
- Temperate perennial

**Height:** 2 to 4 in. (5 to 10 cm)
**Spread:** 12 in. (30 cm)
**USDA Hardiness Zone:** 3a to 10b
**Ideal Pot Sizes:** Packs, Quarts, Gallons, Gallons or Larger
**Uses:** Pots, Baskets, Combos

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Gold Mound *Sedum*

*Sedum mexicanum*

- Chartreuse foliage plant
- Blooms from late Spring through Summer
- Low-maintenance, drought-tolerant sedum
- Adaptable to different environments

**Height:** 12 to 15 in. (30 to 38 cm)
**Spread:** 12 to 16 in. (30 to 41 cm)
**Ideal Pot Sizes:** Packs, Quarts, Gallons
**Uses:** Pots, Combos, Landscapes
ImPower™
New Guinea Impatiens

*Impatiens hawkeri*

- Fast-to-finish; highly programmable
- Uniform series flowers within 1 week
- High-density pots and packs
- Large blooms

**Height:** 8 to 10 in. (20 to 25 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**Ideal Pot Sizes:** Quarts, Gallons
**Uses:** Pots

**HIGH DENSITY, NO PINCH**
ANNUALS

Pink Frost (green foliage) ⬤ 2 ⬤ 1 ⬤ B

Lavender (green foliage) ⬤ 2 ⬤ 1 ⬤ B

Orange (green foliage) ⬤ 3 ⬤ 1 ⬤ B

Red Frost (green foliage) ⬤ 2 ⬤ 1 ⬤ B

Purple Blue (green foliage) ⬤ 3 ⬤ 1 ⬤ B

Red Flame (green foliage) ⬤ 2 ⬤ 1 ⬤ B

Salmon (green foliage) ⬤ 3 ⬤ 1 ⬤ B

White (green foliage) ⬤ 2 ⬤ 1 ⬤ B

Dark Red (dark green foliage) ⬤ 2 ⬤ 1 ⬤ B

White Pink Eye (dark green foliage) ⬤ 3 ⬤ 1 ⬤ B

SelectaNorthAmerica.com or 800 879-2255

IMPATIENS 69
**ColorPower™ New Guinea Impatiens**

*Impatiens hawkeri*

- For medium-to-large pots and baskets
- Wide range of colors and novelties
- Outstanding habit and presentation
- Big, bright blooms light up the shade

**Height:** 8 to 10 in. (20 to 25 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**Ideal Pot Sizes:** Gallons, Gallons or Larger
**Uses:** Pots, Baskets, Landscapes

**NO PINCH**
| **Red 22**  
  (green foliage) | **White 22**  
  (green foliage) | **Orchid**  
  (green foliage) | **Purple Blue**  
  (green foliage) |
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td><img src="image" alt="Red 22" /></td>
<td><img src="image" alt="White 22" /></td>
<td><img src="image" alt="Orchid" /></td>
<td><img src="image" alt="Purple Blue" /></td>
</tr>
</tbody>
</table>
| **Red Flame**  
  (green foliage) | **Rose**  
  (green foliage) | **Salmon Pink**  
  (green foliage) | **Peach Frost**  
  (green foliage) |
| ![Red Flame](image) | ![Rose](image) | ![Salmon Pink](image) | ![Peach Frost](image) |
| **Violet**  
  (green foliage) | **Coral Flame**  
  (dark green foliage) | **Dark Pink Flame**  
  (dark green foliage) | **Dark Red**  
  (dark green foliage) |
| ![Violet](image) | ![Coral Flame](image) | ![Dark Pink Flame](image) | ![Dark Red](image) |
| **Lavender Flame**  
  (dark green foliage) | **Light Pink+Eye**  
  (dark green foliage) | **Orange Flame**  
  (dark green foliage) | **White Red Flame**  
  (dark green foliage) |
| ![Lavender Flame](image) | ![Light Pink+Eye](image) | ![Orange Flame](image) | ![White Red Flame](image) |

SelectaNorthAmerica.com or 800 879-2255

**ANNUALS**
**Bounce™**
**Interspecific Impatiens**
*Impatiens hawkeri*

- Best for shade and heat
- Loads of color in the garden
- Great branching; fast flowering
- Downy mildew resistant

**Height:** 14 to 20 in. (36 to 51 cm)
**Spread:** 14 to 20 in. (36 to 51 cm)
**Ideal Pot Sizes:** Gallons, Gallons or Larger
**Uses:** Pots, Baskets, Landscapes

**SUN LOVER, NO PINCH**

![Bounce Bright Coral and Violet](image)

- Bright Coral
- Cherry
- Pink Flame
- Violet
- White

SelectaNorthAmerica.com or 800 879-2255
Featherlight White
Lobularia
Lobularia maritima

• Shippable cuttings
• Works in a range of container sizes
• Provides a sweet fragrance

Height: 4 to 6 in. (10 to 15 cm)
Spread: 12 to 16 in. (30 to 41 cm)
Ideal Pot Sizes: Packs, Quarts, Gallons, Gallons or Larger
Uses: Pots, Baskets, Combos

NO PINCH

Magnetica™
Dark Red
Mandevilla
Mandevilla sanderi

• Vigorous and climbing habit
• Large, non-fading blooms

Height: 24 to 48 in. (61 to 122 cm)
Spread: 14 to 18 in. (36 to 46 cm)
Ideal Pot Sizes: Gallons, Gallons or Larger
Uses: Pots, Landscapes

SUN LOVER
Magadi™ White Lobelia
Lobelia

We are your number one source for lobelia, with the comprehensive Magadi™ family. From compact, densely branched varieties that are ideal for quart pots, to trailing varieties that make stunning hanging baskets — Selecta One has your lobelia program covered.
Magadi™ Compact Lobelia

*Lobelia cultivars*

- Compact series
- Upright
- Densely branched

**Height:** 6 to 10 in. (15 to 25 cm)
**Spread:** 8 to 12 in. (20 to 30 cm)
**Ideal Pot Sizes:** Packs, Quarts, Gallons, Gallons or Larger
**Uses:** Pots

**HIGH DENSITY**

- Dark Blue 22
  - 2
  - 2
  - B
- White 22
  - 2
  - 2
  - B
- Blue
  - 2
  - 1
  - B
- Blue+Eye
  - 2
  - 1
  - B
- Purple
  - 2
  - 2
  - B
Magadi™ Lobelia

*Lobelia cultivars*

- Superior collection of Lobelia
- Bred for outstanding heat tolerance
- Versatile in pots or the landscape

**Height:** 14 to 16 in. (36 to 41 cm)
**Spread:** 8 to 12 in. (20 to 30 cm)
**Ideal Pot Sizes:** Gallons, Gallons or Larger
**Uses:** Pots, Baskets, Combos, Landscapes

**SUN LOVER**

- Upright

**COMPACT VIGOR**
- White
  - SelectaNorthAmerica.com or 800 879-2255

**MEDIUM VIGOR**
- Electric Blue
  - SelectaNorthAmerica.com or 800 879-2255

**LARGE VIGOR**
- Electric Purple
  - SelectaNorthAmerica.com or 800 879-2255

- Dark Blue
  - SelectaNorthAmerica.com or 800 879-2255
Magadi™ Basket Lobelia

*Lobelia cultivars*

- Vigorous and floriferous varieties
- Lovely trailing blooms

**Height:** 6 to 10 in. (15 to 25 cm)
**Spread:** 12 to 14 in. (30 to 36 cm)
**Ideal Pot Sizes:** Gallons, Gallons or Larger
**Uses:** Pots, Baskets, Combos

![Magadi Basket White](image)

**Colors:**
- Dark Blue
  - V 3 ⚫ 2 ⚫ B
- Dark Purple
  - V 3 ⚫ 1 ⚫ B
- White
  - V 2 ⚫ 2 ⚫ B

SelectaNorthAmerica.com or 800 879-2255
**FlowerPower™ Compact Osteospermum**

*Osteospermum ecklonis*

- Compact, upright habit
- Early-to-flower, uniform series
- Brilliant colors on large flowers
- Best for cool, low-energy production

*Available as callused cuttings*

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

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

**Ideal Pot Sizes:** Quarts, Gallons

**Uses:** Pots, Landscapes

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**FlowerPower™ Spider Osteospermum**

*Osteospermum ecklonis*

- Unique, attractive flower shape
- Upright habit

*Available as callused cuttings*

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

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

**Ideal Pot Sizes:** Gallons, Gallons or Larger

**Uses:** Pots, Landscapes

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SelectaNorthAmerica.com or 800 879-2255

OSTEOSPERMUM
Daisy Falls™
Osteospermum

*Osteospermum ecklonis*

- Early-Spring baskets and combos
- A more vigorous, trailing osteo
- Performs longer into the season
- Tolerates inclement weather

**Height:** 8 to 12 in. (20 to 30 cm)
**Spread:** 20 to 24 in. (51 to 61 cm)
**Ideal Pot Sizes:** Gallons, Gallons or Larger
**Uses:** Pots, Baskets, Combos

Daisy Falls Pink, Purple and White Amethyst
4D™ Osteospermum

Osteospermum hybrid

• Stays open 24/7
• Excellent branching; masses of blooms
• Superior series uniformity
• Early season

Height: 8 to 12 in. (20 to 30 cm)
Spread: 12 to 16 in. (30 to 41 cm)
Ideal Pot Sizes: Gallons, Gallons or Larger
Uses: Pots, Landscapes

SelectaNorthAmerica.com or 800 879-2255

White
¥ 3 ¥ 2 ¥ B

Yellow
¥ 2 ¥ 2 ¥ B

4D Dark Violet+White

Harvest Moon
¥ 3 ¥ 3 ¥ B

Violet Ice
¥ 2 ¥ 2 ¥ B

Berry White
¥ 4 ¥ 2 ¥ B

Dark Violet+White
¥ 3 ¥ 2 ¥ B

Pink
¥ 3 ¥ 3 ¥ B

Purple
¥ 3 ¥ 3 ¥ B

Sunburst
¥ 3 ¥ 2 ¥ B
Zion™ Purple Sun Osteospermum
Zion™ Osteospermum
Osteospermum ecklonis

- Collection inspired by the colors of Zion National Park
- Distinctive, novel colors on large flowers
- Excellent branching on full, mounded habit

Available as callused cuttings

Height: 16 to 20 in. (41 to 51 cm)
Spread: 16 to 24 in. (41 to 61 cm)
Ideal Pot Sizes: Gallons, Gallons or Larger
Uses: Pots, Landscapes

Purple Sun

Morning Sun

Magic Yellow

Copper Amethyst

Blue Denim

Pure Yellow

Red

SelectaNorthAmerica.com or 800 879-2255
Petunia

We are excited to showcase our expanded lineup of stellar Sky Petunias, all featuring uniquely patterned blooms with flecks of white against vibrant colors that resemble a starry sky. This season, our compact Starlet™ series receives its first Sky pattern variety, NEW Midnight Sky, with dark and moody, deep purple blooms and bright white stars. Check out the sizing chart on this page to help you plan your best season yet!
LARGE VIGOR

Main Stage™
page 90
Starlet™ Petunia
*Petunia cultivars*

- Grower friendly, compact and controlled
- Well-matched timing, vigor and habit
- Early to flower and fast to finish
- Exciting color range, including a Sky type

**Height:** 8 to 10 in. (20 to 25 cm)
**Spread:** 12 to 20 in. (30 to 51 cm)
**Ideal Pot Sizes:** Quarts
**Uses:** Pots, Baskets, Combos

**HIGH DENSITY, NO PINCH**
ANNUALS

New

Midnight Sky
2 1 B

Light Pink
2 3 B

Burgundy
2 3 B

Dark Pink
2 2 B

Lavender Star
1 3 B

Magenta Star
2 3 A

Pink Lemonade
2 3 B

Pinot Red
2 3 A

Purple Star
1 1 B

Salmon Red Vein
2 3 B

White
2 3 B

Yellow
2 2 B

Blueberry Vein
3 2 A

Velvet
2 3 B

Red
1 3 B

Blue
2 3 B

SelectaNorthAmerica.com or 800 879-2255
Headliner™ Petunia

*Petunia cultivars*

- Medium-vigor, mounded series
- Early flowering for a fast finish
- Dramatic color range on large blooms
- Wide assortment of Sky petunias

**Height:** 10 to 16 in. (25 to 41 cm)
**Spread:** 20 to 30 in. (51 to 76 cm)
**Ideal Pot Sizes:** Gallons, Gallons or Larger
**Uses:** Pots, Baskets, Combos

NEW

![Enchanted Sky](image)

Crystal Sky

**NEW**

![Electric Purple Sky](image)

Night Sky®

**NEW**

![Headliner Night Sky](image)

![Starry Sky Burgundy](image)

Pink Sky

SelectaNorthAmerica.com or 800 879-2255
Banana Cherry
Electric Purple 22
Dark Saturn
Raspberry Star
Red Star
Blue
Red
Sky Blue
White
Yellow
Lipstick
Blueberry Swirl
Raspberry Swirl
Pink Vein
Dark Violet Picotee
White Rose Vein

SelectaNorthAmerica.com or 800 879-2255
Main Stage™ Glacier Sky Petunia
Main Stage™ Petunia

*Petunia cultivars*

- Our most vigorous, trailing petunia line
- Excellent Summer performance
- Unique color range, including a Sky type

**Height:** 12 to 16 in. (30 to 41 cm)
**Spread:** 24 to 36 in. (61 to 91 cm)
**Ideal Pot Sizes:** Gallons, Gallons or Larger
**Uses:** Pots, Baskets, Landscapes

New

- White 22
- Glacier Sky
- Blueberry
- Hot Pink
- Pink
- Pink Vein
- Violet
- Purple
- Red
- Violet Picotee
SweetSunshine™ Petunia

*Petunia cultivars*

- Durable, fully double blooms
- Well-branched, medium-vigor plants
- Semi-trailing habit for hanging baskets
- Unique colors and popular flower form

**Height:** 10 to 16 in. (25 to 41 cm)
**Spread:** 20 to 30 in. (51 to 76 cm)
**Ideal Pot Sizes:** Gallons, Gallons or Larger
**Uses:** Pots, Baskets, Combos

**Burgundy**

**Magenta**

**Honeydew**

**Providence**

**Light Pink**

SelectaNorthAmerica.com or 800 879-2255
**Senetti® Pericallis**

*Senecio x hybrida*

- Low-maintenance, early-Spring series
- Weather tolerant; thrives in cool temperatures
- Vivid blooms on rounded, compact foliage

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

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

**Ideal Pot Sizes:** Quarts, Gallons, Gallons or Larger

**Uses:** Pots

---

**Types:**

- **Cobalt Blue**
  - Mounded
  - V 3  C 1

- **White**
  - Mounded
  - V 3  C 1

- **Blue Bicolor**
  - Mounded
  - V 3  C 1

- **Deep Blue**
  - Mounded
  - V 3  C 2

- **Magenta**
  - Mounded
  - V 3  C 2

- **Magenta Bicolor**
  - Mounded
  - V 3  C 1

- **Pink Bicolor**
  - Mounded
  - V 3  C 1

- **Violet Bicolor**
  - Mounded
  - V 3  C 2

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SelectaNorthAmerica.com or 800 879-2255
Gisele® Light Violet and Pink Phlox
Gisele® Phlox

Phlox cultivars

- Reliable rooting; dependable shipping
- Mounded habit
- Heat tolerant
- Powdery mildew resistance

Height: 10 to 12 in. (25 to 30 cm)
Spread: 14 to 18 in. (36 to 46 cm)
Ideal Pot Sizes: Packs, Quarts, Gallons, Gallons or Larger
Uses: Pots, Baskets, Combos, Landscapes

HIGH DENSITY, SUN LOVER

Gisele Red and White

Light Pink + Eye
Red
Scarlet
Purple
Hot Pink
Light Violet
White
Pink
Skyscraper™ Salvia

Salvia cultivars

- Tender perennial
- Season extender
- Large blooms on sturdy stems
- Lasts longer/branches better than seed

Height: 14 to 28 in. (36 to 71 cm)
Spread: 10 to 16 in. (25 to 41 cm)
USDA Hardiness Zone: 7b
Ideal Pot Sizes: Gallons, Gallons or Larger
Uses: Pots, Landscapes

Fairy™ Scaevola

Scaevola aemula

- Well-branched plant
- Trailing habit
- Outstanding outdoor performance

Height: 6 to 10 in. (15 to 25 cm)
Spread: 18 to 24 in. (46 to 61 cm)
Ideal Pot Sizes: Gallons, Gallons or Larger
Uses: Pots, Baskets, Combos, Landscapes

SUN LOVER
PortoGrande™
Portulaca
*Portulaca oleracea*

- Vibrant, large blooms
- Thrives in hot and arid conditions
- Functions as a flowering succulent
- Excellent trailing component in mixes

**Height:** 4 to 8 in. (10 to 20 cm)
**Spread:** 14 to 16 in. (36 to 41 cm)
**Ideal Pot Sizes:** Gallons, Gallons or Larger
**Uses:** Pots, Baskets, Combos, Landscapes

**SUN LOVER**

**Tsavo™**
Compact Yellow
*Sanvitalia procumbens*

- Early-season variety
- Bright color is offset by dark foliage
- Tidy, mounded habit

**Height:** 8 to 10 in. (20 to 25 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**Ideal Pot Sizes:** Packs, Quarts
**Uses:** Pots

**HIGH DENSITY**
Verbena

Ranging from compact to large, Selecta One’s verbena collection has everything you need. New to the program this year is NEW Beats™, a compact-spreading series that does not require pinching or PGRs! This series flowers two weeks earlier than other verbena. Plus, its tolerance to heat, cycling and water stress keeps varieties looking lush and vibrant all season long – never missing a beat of color!
LARGE VIGOR

BeBop™
page 104

Blues™
page 104
Beats™ Red and Red+White Verbena
NEW Beats™ Verbena

Verbena cultivars

- Naturally compact-spreading habit
- Flowers 2 weeks earlier than other verbena
- Tolerant to heat, cycling and water stress
- No PGRs; no pinch

Height: 6 to 8 in. (15 to 20 cm)
Spread: 10 to 12 in. (25 to 30 cm)
Ideal Pot Sizes: Packs, Quarts, Gallons
Uses: Pots, Baskets, Combos, Landscapes

HIGH DENSITY, SUN LOVER, NO PINCH

SelectaNorthAmerica.com or 800 879-2255

ANNUALS
Lascar™ Verbena

Verbena cultivars

- Medium vigor with mounded-trailing habit
- Uniform series is early to flower
- Excellent in combinations

Height: 12 to 14 in. (30 to 36 cm)
Spread: 12 to 16 in. (30 to 41 cm)
Ideal Pot Sizes: Gallons, Gallons or Larger
Uses: Pots, Baskets, Combos, Landscapes

SUN LOVER
BeBop™ Verbena
Verbena cultivars

- Bright, exciting patterns and colors
- Trailing plants
- Great branching and center-fill
- Superior season-long color

Height: 10 to 12 in. (25 to 30 cm)
Spread: 12 to 16 in. (30 to 41 cm)
Ideal Pot Sizes: Gallons, Gallons or Larger
Uses: Pots, Baskets, Combos, Landscapes

SUN LOVER

Blues™ Verbena
Verbena cultivars

- Big blooms with an eye
- Medium-vigor, semi-upright series
- Perfect in mixed containers
- High resistance to powdery mildew

Height: 10 to 12 in. (25 to 30 cm)
Spread: 12 to 18 in. (30 to 46 cm)
Ideal Pot Sizes: Gallons, Gallons or Larger
Uses: Pots, Baskets, Combos, Landscapes

SUN LOVER
Mandala™ Double Orange Kalanchoe

Double Orange
Ø 3, Response: 7.5,
Bloom Size: 2.5 mm
**NEW Mandala™ Kalanchoe**

*Kalanchoe blossfeldiana*

- The most uniform kalanchoe series
- Consistent vigor, shape and response time
- Programmable, easy production
- Vivid colors create stand-out displays

**Height:** 7 to 9 in. (18 to 23 cm)
**Spread:** 6 to 8 in. (15 to 20 cm)
**Ideal Pot Sizes:** Packs, Quarts, Gallons, Gallons or Larger
**Uses:** Indoor Pots, Combos, Landscapes

**HIGH DENSITY**

- **Purple**
  - 3, Response: 8,
  - Bloom Size: 4 mm

- **Double White**
  - 4, Response: 9,
  - Bloom Size: 5 mm

- **Yellow**
  - 4, Response: 7.5,
  - Bloom Size: 3.5 mm

- **Pink**
  - 3, Response: 7.5,
  - Bloom Size: 2.5 mm

- **Red**
  - 4, Response: 8,
  - Bloom Size: 3.5 mm

- **Bright Orange**
  - 3, Response: 7.5,
  - Bloom Size: 2.5 mm

- **White**
  - 3, Response: 8,
  - Bloom Size: 3.5 mm

- **Croco**
  - 4, Response: 7.5

- **Pink+White**
  - 3, Response: 8,
  - Bloom Size: 2.5 mm

- **Hot Pink**
  - 3, Response: 8,
  - Bloom Size: 2.5 mm

- **Rose**
  - 3, Response: 8,
  - Bloom Size: 2.5 mm

- **Light Pink**
  - 3, Response: 7.5,
  - Bloom Size: 4 mm

SelectaNorthAmerica.com or 800 879-2255
Dianthus

This season, our extensive lineup includes an array of pot carnation options that make exciting gift items for the end consumer. There are many versatile products to choose from, with several varieties thriving as indoor potted plants as well as outdoors in patio containers and the garden. Check out the sizing guide on this page to start planning your ideal program.
MEDIUM VIGOR

Early Love®
page 113

NEW DiaDeur™
page 114

Purple Wedding™
page 115

SuperTrouper™
page 116

Palm Peach
page 115
Oscar® Dianthus

*Dianthus caryophyllus*

- Hyper-uniform pot carnation series
- Best-branched habit on the market
- Compact and upright
- Long-lasting double blooms

**Height:** 8 to 10 in. (20 to 25 cm)
**Spread:** 6 to 10 in. (15 to 25 cm)
**USDA Hardiness Zone:** 6a
**Ideal Pot Sizes:** Quarts, Gallons
**Uses:** Pots, Combos, Landscapes
Cherry
2 1 2 B

Purple
2 2 2 B

Red Star
2 2 2 B

Violet+Pink
2 2 2 B

White
1 2 2 B

Purple Star
2 2 2 B

Cherry+Velvet
2 2 2 B

Dark Red
2 2 2 B

Pink
2 2 2 B

Pink+Purple
2 2 2 B

Salmon
2 2 2 B

SelectaNorthAmerica.com or 800 879-2255
**NEW** I ♥ U Dianthus

*Dianthus caryophyllus*

- Always displays a full range of colors
- Deep pink; soft rose and pink; white
- Works both indoors and outdoors
- Pollinators love this fragrant carnation

**Height:** 2 to 4 in. (5 to 10 cm)
**Spread:** 5 to 7 in. (13 to 18 cm)
**USDA Hardiness Zone:** 6a to 10a
**Ideal Pot Sizes:** Quarts
**Uses:** Pots, Combos, Landscapes

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**Pink Kisses®**

*Dianthus cultivars*

- Perfect “grab-and-go” gift item
- Lots of two-tone flowers; no deadheading
- Early-season, easy-to-grow pot carnation
- Frost-hardy, late-season tender perennial

**Height:** 12 to 16 in. (30 to 41 cm)
**Spread:** 10 to 14 in. (25 to 36 cm)
**USDA Hardiness Zone:** 5a to 6a
**Ideal Pot Sizes:** Packs, Quarts
**Uses:** Pots, Combos

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Please visit selectanorthamerica.com to order Point of Purchase materials.
NEW Scully Dianthus

*Potted Plants*

**COMPACT VIGOR**

- Purple blooms contrast dark foliage
- Early and mid-Spring sales
- Versatile for indoor or outdoor use
- Grow cool for low-energy production

**Scully Dianthus**

*Dianthus caryophyllus*

- Height: 10 to 14 in. (25 to 36 cm)
- Spread: 8 to 12 in. (20 to 30 cm)
- USDA Hardiness Zone: 6a
- Ideal Pot Sizes: Quarts
- Uses: Pots, Combos

---

**Early Love® Dianthus**

*Dianthus cultivars*

- Early-flowering, unique bicolor
- Large, double blooms on short stems
- Flower bouquet-look for Valentine’s Day
- Great match to Pink Kisses®

**Early Love® Dianthus**

*Dianthus cultivars*

- Height: 10 to 14 in. (25 to 36 cm)
- Spread: 8 to 12 in. (20 to 30 cm)
- USDA Hardiness Zone: 7a
- Ideal Pot Sizes: Quarts, Gallons
- Uses: Pots, Combos

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SelectaNorthAmerica.com or 800 879-2255  
DIANTHUS  113
DiaDeur™ Dianthus
*Dianthus caryophyllus*

- Double, multicolored, fragrant blooms
- Medium-vigor, well-branched habit
- Works both indoors and outdoors
- Low-energy growing; weather tolerant

**Height:** 10 to 14 in. (25 to 36 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**USDA Hardiness Zone:** 6a
**Ideal Pot Sizes:** Quarts, Gallons, Gallons or Larger
**Uses:** Pots, Combos, Landscapes

SelectaNorthAmerica.com or 800 879-2255
**Palm Peach**

**Dianthus**

*Dianthus cultivars*

- Extremely long-lasting flowers
- Windowsill item or compact potted plant
- Ideal for distribution center shipping
- Cold tolerant; not sensitive to ethylene

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

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

**USDA Hardiness Zone:** 7a

**Ideal Pot Sizes:** Quarts, Gallons

**Uses:** Pots, Combos

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**Purple Wedding™**

**Dianthus**

*Dianthus cultivars*

- Early, upright, dark-leafed carnation
- Frost tolerant and lasts for months
- Tricolored purple blooms with a dark eye
- Birds and bees flock for a big show

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

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

**USDA Hardiness Zone:** 7a

**Ideal Pot Sizes:** Quarts, Gallons

**Uses:** Pots, Combos
SuperTrouper™ Lavender+Eye Dianthus
SuperTrouper™ Dianthus

*Dianthus caryophyllus*

- Double flowers on an upright habit
- Excellent color range
- Wonderful fragrance
- Strong performer in pots and gardens

**Height:** 10 to 14 in. (25 to 36 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**USDA Hardiness Zone:** 6a
**Ideal Pot Sizes:** Quarts, Gallons, Gallons or Larger
**Uses:** Pots, Combos, Landscapes
Calynopsis™ Calceolaria

*Calceolaria hybrida*

- Unique, colorful premium potted plant
- Early-season sales
- Liner supply limited to specific producers and ship weeks

**Height:** 10 to 12 in. (25 to 30 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**Ideal Pot Sizes:** Quarts, Gallons
**Uses:** Pots, Landscapes

Calynopsis Yellow With Red

**NEW**

- **Red+Yellow Eye**
  1.32.C
- **Yellow With Red**
  2.3.C
- **Red**
  3.2.C
- **Yellow**
  1.32.C
Dianthalot™ Pink+Star and Dark Red+Star Dianthus
Dianthus

Selecta One has the assortment to meet all your hardy dianthus needs. With our active breeding program, we provide you with the best products available. Plus, the programmability makes planning your dianthus production easier than ever. Our lineup ranges in timing, flower forms and colors - with six new varieties joining the EverLast™ series this season. Check out page 124 for more information.
Dianthalot™ Dianthus

*Dianthus cultivars*

- Super-tough, overwintering series
- Blooms Spring and Summer
- No vernalization required
- Fast-crop perennial for Spring planting

**Height:** 8 to 12 in. (20 to 30 cm)
**Spread:** 14 to 20 in. (36 to 51 cm)
**USDA Hardiness Zone:** 5a
**Ideal Pot Sizes:** Quarts, Gallons
**Uses:** Pots, Landscapes

[Dianthus cultivars images]
Carmen™ Dianthus

_Dianthus cultivars_

- Zone 5-hardy, true perennial
- Overwinters better than other carnations
- Excellent uniformity
- Double blooms

**Height:** 10 to 14 in. (25 to 36 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**USDA Hardiness Zone:** 5b
**Ideal Pot Sizes:** Quarts, Gallons
**Uses:** Pots, Combos, Landscapes

SelectaNorthAmerica.com or 800-879-2255
**EverLast™ Dianthus**

*Dianthus interspecific*

- Upright habit
- Most extensive color range
- Blooms in early Spring
- Tough as nails in any weather

**Height:** 8 to 12 in. (20 to 30 cm)
**Spread:** 10 to 14 in. (25 to 36 cm)
**USDA Hardiness Zone:** 5a
**Ideal Pot Sizes:** Quarts, Gallons
**Uses:** Pots, Combos, Landscapes

EverLast
Burgundy Blush
Belleza® Gaura

Gaura lindheimeri

- Excellent branching and upright habit
- Performs in high humidity/extreme heat
- Great companion plant
- Native pollinator

Height: 12 to 18 in. (30 to 46 cm)
Spread: 16 to 20 in. (41 to 51 cm)
USDA Hardiness Zone: 6a to 9b
Ideal Pot Sizes: Gallons
Uses: Pots, Landscapes

Belleza® White
Compact Light Pink
Dark Pink
White
**Sweet Dreams™ Lavender**

*Lavandula angustifolia*

- Low-to-no vernalization requirements
- Strong, well-branched plants
- Deep blue flowers; superior fragrance
- Excellent Summer performance

**Height:** 12 to 18 in. (30 to 46 cm)
**Spread:** 6 to 10 in. (15 to 25 cm)
**USDA Hardiness Zone:** 5a
**Ideal Pot Sizes:** Quarts, Gallons
**Uses:** Pots, Combos, Landscapes

**SUN LOVER**

![Sweet Dreams Blue](image-url)
LaVela™ Lavender

*Lavandula stoechas*

- Tender perennial
- Flowers for early-season sales
- Colorful blooms; large flag and big bee
- Well-branched Spanish lavender

**Height:** 13 to 15 in. (33 to 38 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**USDA Hardiness Zone:** 7a
**Ideal Pot Sizes:** Quarts, Gallons, Gallons or Larger
**Uses:** Pots, Combos

LaVela Dark Violet

**Vigor:** MEDIUM
**Upright**

Compact Dark Violet  
Compact Dark Pink  
Compact White  
Dark Violet
Herbs

Explore the versatility of Selecta One’s quality vegetative herb collection — an array of sweet and savory varieties that the at-home gardener can utilize as border plants or spice up their favorite recipes!
Product Forms

Selecta One offers you a range of different product forms including unrooted cuttings and TrixiLiners. Also available are AutoStix® and AutoStix® Plus – pre-rooted cuttings designed to eliminate the time and costs associated with traditional liner production. Our groundbreaking products and forms make Selecta One’s offering the most innovative in the industry – with your success in mind!

Unrooted cuttings (URC)
All Selecta One varieties are available as URC.
- Variety minimum/multiples of 100
- Order minimum is 2,000
- Available exclusively through Ball Seed
- Also available in AutoStix strip

AutoStix® & AutoStix® Plus strip cuttings
Same high-quality unrooted cuttings from Selecta One in a biodegradable strip for automated transplanting.
- Variety and order minimums are the same as URC
- Order minimum is 2,000
- Available exclusively through Ball Seed

AutoStix Plus pinched (Verbena only)
- Variety minimum of 100
- Can combine with URC

Callused cuttings
Available in Osteospermum, the cuttings can be direct stuck to the finish container, so propagation is cut by 7 to 9 days.
- Variety minimum/multiples of 100
- Order minimum is 2,000
- Available exclusively through Ball Seed

Rooted cuttings
Selecta One varieties are available as rooted cuttings from Selecta One licensed Root & Sell Stations. To find contact information for our Root & Sell Stations in the U.S. and Canada, turn to the back cover.
- Available from your preferred broker

Trixi®
Upgraded to customize the treatment of components, Trixi gives you a stronger start for a better finish of 100% complete and balanced color combos. For more information, see page 4 or go to SelectaNorthAmerica.com.
- Available from your preferred broker

Selecta One Clean & Field-Tested Varieties
Every Selecta One variety is rigorously tested before entering our program. Every program variety is subject to the same testing annually. Our Selecta One Clean Stock program follows strict, internationally recognized protocols, and is based on 60 years of experience. Clean Stock starts in the Selecta One clean stock facility in Stuttgart, Germany. The Selecta One production centers are located in Kenya, Uganda and Canada. Our field-tested products are intensively rated for performance and provide benefits for growers as well as for consumers.
### Discontinued Selecta One Varieties for 2022

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<td>Trixi Chemical Attraction</td>
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<td>Trixi Double Delight</td>
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<td>Trixi Nightfall</td>
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<td>Trixi Party Favor</td>
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<td>Trixi Prime Time</td>
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<td>Trixi Treasure Chest</td>
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<td>Trixi Who Knew Orleans</td>
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<tr>
<td>Trixi Wild Berry</td>
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<td>Verbena Blues Violet+Eye</td>
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<td>Verbena Lascar Hot Rose</td>
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<td>Verbena Pops Pink+Eye</td>
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<td>Verbena Pops White</td>
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### Renamed Selecta One Varieties for 2022

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<thead>
<tr>
<th>VARIETY</th>
<th>2022 RENAME</th>
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<tbody>
<tr>
<td>Dianthus Oscar Purple Star 21</td>
<td>Dianthus Oscar Purple Star</td>
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<tr>
<td>Dianthus SuperTrouper Purple 21</td>
<td>Dianthus SuperTrouper Purple</td>
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<tr>
<td>Dianthus DiaDeur Velvet+White</td>
<td>Dianthus DiaDeur Velvet+White</td>
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<tr>
<td>Dianthus SuperTrouper White 21</td>
<td>Dianthus SuperTrouper White</td>
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<tr>
<td>Geranium Ivy Royal Dark Red 21</td>
<td>Geranium Ivy Royal Dark Red</td>
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<tr>
<td>Helichrysum Silver Stitch 21</td>
<td>Helichrysum Silver Stitch</td>
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<tr>
<td>Lavender LaVela Compact Dark Violet 21</td>
<td>Lavender LaVela Compact Dark Violet</td>
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<tr>
<td>Petunia Headliner Dark Violet Picotee 21</td>
<td>Petunia Headliner Dark Violet Picotee</td>
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<tr>
<td>Trixi Double Date 21</td>
<td>Trixi Double Date</td>
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</table>
## Important Plant Protection & Licensing Information

### Selecta One Image, Tag and Trademark Policy

All images featuring Selecta One products are to be used for promotional materials, including but not limited to point-of-purchase items, tags, advertising, catalogs, fliers, websites, etc. They may not be used without permission from Selecta One or Ball.

All images loaned by Selecta One are copyrighted and are the property of Selecta Klemm GmbH & Co. KG and its subsidiaries. They are loaned to customers for promotional use only. Any unauthorized use is strictly prohibited.

All loaned images must be used in connection with the proper trademarks. The correct commercial name and variety name must be listed on all images used in connection with any reproduction.

All tags used for Selecta One products must be supplied or approved by Selecta One or Ball. Tags must include the full commercial name of the product, proper trademark (™ or ®) as applicable, variety name, patent information and the term “Propagation is Prohibited” or “Propagation Prohibited” as applicable and Selecta One-approved images. All custom tag layouts and orders must be approved prior to production/reproduction.

### Plant Protection

Selecta One varieties are covered by the Flowering Only Terms and Conditions of Sale Agreement. Many are also protected by U.S. Patents and/or Plant Breeders’ Rights in Canada and elsewhere.

### Flowering Only Terms & Conditions

Plants shall be sold only as “Finished Plants,” defined as plants grown in a 3-in. (7.5-cm) size pot/container or larger. Propagation and/or taking tip cuttings as well as the unlicensed sale and transfer of rooted or unrooted cuttings to any other company or individual, is strictly prohibited. By accepting an order and/or opening a box of Selecta One plants, you signify agreement with these Flowering Only Terms & Conditions of Sale. Flowering Only Terms & Conditions of information is also available through Royalty Administration International (RAI). RAI has been appointed as our agent in the U.S. for the protection of Selecta One varieties. RAI reserves the right to inspect premises and plantings at any reasonable time to ensure compliance with the terms and conditions stated herein.

### Propagation License Agreement

Only Selecta One Geranium, New Guinea Impatiens, Osteospermum, Sutera and Poinsettia varieties are available for licensed propagation and only for the purpose of producing and selling “Finished” plants (defined above). Propagation is strictly prohibited without a license. To obtain a Propagation license, please contact RAI U.S. at (800) 472-4724. This royalty bearing license must be signed and returned to RAI in order to receive cuttings and maintain stock plants. Canada Growers, please contact Ball Licensing Administration at (630) 588-3110 or (630) 588-3311.

### Important Plant Protection & Licensing Information

#### COMMERCIAL NAME

<table>
<thead>
<tr>
<th>Petunia</th>
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<tr>
<td>Headline™ Banana Cherry</td>
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<td>Headline™ Blue</td>
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<td>Headline™ Blueberry Swirl</td>
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<td>Headline™ Electric Purple 22</td>
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<td>Headline™ Electric Purple Sky</td>
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<td>Headline™ Enchanted Sky</td>
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<td>Headline™ Starry Sky</td>
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<td>Burgundy</td>
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#### VARIETY NAME

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#### Propagation License Agreement

Only Selecta One varieties. RAI reserves the right to inspect premises and plantings at any reasonable time to ensure compliance with the terms and conditions stated herein.

### Royalty Administration International

10501 Ben C. Pratt / Six Mile Cypress Parkway, Suite 103
Fort Myers, FL 33966
Phone: (800) 472-4724 / (239) 278-9917
Fax: (239) 278-4833
E-mail: info@rai-na.com
Terms & Conditions of Sale

Note: Ball Terms & Conditions of Sale are country/region specific. The following Terms & Conditions of Sale apply only to products 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 between 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 catalogue 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, made by Purchaser upon resale of the merchandise, and Seller shall have no liability thereunder.

Limitation of Remedy

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

Mandatory Arbitration

ANY CLAIM WHICH PURCHASER MAY HAVE AGAINST SELLER ARISING OUT OF OR RELATING TO THE SALE OF THE MERCHANDISE SHALL BE SETTLED BY BINDING ARBITRATION IN ACCORDANCE WITH THE COMMERCIAL ARBITRATION RULES OF THE AMERICAN ARBITRATION ASSOCIATION.

Said Arbitration to be Venued in Cook or DuPage Counties, Illinois. The laws of several states require arbitration, conciliation or mediation of disputes involving allegedly defective plants before legal action may be taken. Purchaser should contact the State Department Of Agriculture for information. Such laws typically require that a complaint be filed with the State Department Of Agriculture in time to permit inspection of the crops or plants. If such a complaint is filed, a copy must be sent to Seller by registered or certified mail.

Governing Law, Jurisdiction & Venue

The laws of the State of Illinois, including but not limited to the Uniform Commercial Code as adopted therein, shall govern all matters arising out of or relating to Seller’s sale of merchandise. ANY DISPUTE NOT SUBJECT TO ARBITRATION AND ANY ACTION TO ENFORCE AN ARBITRATION AWARD ARISING OUT OF OR RELATING TO THE SALE OF MERCHANDISE HEREUNDER SHALL BE MAINTAINED IN THE STATE OR FEDERAL COURTS LOCATED IN DUPage OR COOK COUNTIES, ILLINOIS, AND PURCHASER SUBMITS TO THE JURISDICTION OF AND VENUE IN SAID COURTS.

Indemnity

By accepting merchandise, Purchaser agrees to defend Seller, to hold it harmless and indemnify it from and against any claim or loss asserted by any or all transferees of such merchandise or users of the products of such merchandise who are not notified by Purchaser in writing of Limitation of Warranty, Limitation of Remedy, Mandatory Arbitration, Governing Law Jurisdiction and Venue, and Notice Regarding Seed-Borne Diseases in language substantially equivalent to that contained in these Terms and 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 accordance with terms specified on invoice. Payment is due in invoiced currency and in accordance with 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, WHICHERSOEVER 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 cost of the merchandise to Purchaser’s destination, and replacement or credit for damaged merchandise if the steps listed here are followed: PURCHASER WILL NOT REFUSE OR RETURN GOODS, OR THE RIGHT TO FILE A CLAIM IS LOST AND PURCHASER WILL STILL BE LIABLE FOR THE MATERIAL AND THE FREIGHT. When Purchaser receives shipment: 1) Count all cartons. 2) Inspect all cartons for external damage. 3) Check for open or resealed cartons. 4) Note any damages, shortages, open or resealed cartons on the delivery receipt; the carrier’s representative must also sign the receipt. 5) Open all boxes immediately, and inspect for damage such as scorched, frozen or broken plants; material shortages; etc. NOTIFY SELLER IMMEDIATELY IF A SHIPMENT IS DAMAGED. Call the Ball Traffic Department at 800 879-BALL to report the damage and receive details on what is needed to file a claim.

Cancellation Policy

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

Notice & Return

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 substitute shipments. 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 Purchaser’s nurseries during normal business hours to assess 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 “SPECIALLY DESIGNATED NATIONALS” LIST) WITHOUT AN APPROPRIATE EXPORT LICENSE. FOREIGN CORRUPT PRACTICES ACT: EACH PARTY REPRESENTS AND WARRANTS TO THE OTHER PARTY THAT IT WILL TAKE NO ACTION IN RELATION TO THIS TRANSACTION THAT WOULD BE IN VIOLATION OF THE APPLICABLE LAWS AND REGULATIONS OF ANY COUNTRY AND THE UNITED STATES OF AMERICA. NO PAYMENTS OF MONEY OR ANYTHING OF VALUE WILL BE OFFERED, PROMISED OR PAID, DIRECTLY OR INDIRECTLY, TO ANY OFFICIALS TO INFLUENCE THE ACTS OF SUCH OFFICIALS TOWARDS THEM TO USE THEIR INFLUENCE WITH A GOVERNMENT OR AN INSTRUMENTALITY THEREOF, OR TO OBTAIN AN IMPROPER ADVANTAGE.

SelectaNorthAmerica.com or 800 879-2255

136 TERMS & CONDITIONS OF SALE
All recommendations are made to the best of our knowledge. We cannot accept any responsibility for the correctness of this information in unique situations. Please pay attention to product labels and test chemicals or new treatments first before applying large scale.

<table>
<thead>
<tr>
<th>Crop</th>
<th>Series/Variety</th>
<th>Cell Size (in millimeters)</th>
<th>Recommended PGR Treatment (IBA + NAA mix)</th>
<th>Early PGR Treatment Recommended (after 7-10 days)</th>
<th>Average Days with Mist</th>
<th>Average Propagation Weeks</th>
<th>Pinch in Propagation</th>
<th>Comments</th>
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</thead>
<tbody>
<tr>
<td>Bacopa</td>
<td>Sutera grandiflora</td>
<td>25 mm</td>
<td>no</td>
<td>7 to 9</td>
<td>yes</td>
<td>3 to 4</td>
<td>recommended</td>
<td>Stick 2 cuttings per cell; avoid overwatering of young plants; apply preventive fungicide treatment after sticking.</td>
</tr>
<tr>
<td>Begonia</td>
<td>Begonia boliviensis</td>
<td>25/35 mm</td>
<td>optional</td>
<td>0 to 3, reduce mist as soon as possible</td>
<td>yes</td>
<td>4 to 5</td>
<td>recommended</td>
<td>pinch to node #3 but before developing node #5; Avoid overmisting/ watering of young plants. To avoid dormancy, tuberous Begonia requires a minimum day length of 14 hrs. and a minimum temperature of 55°F/13°C.</td>
</tr>
<tr>
<td>Begonia</td>
<td>Begonia cultivars</td>
<td>25/35 mm</td>
<td>optional</td>
<td>0 to 3, reduce mist as soon as possible</td>
<td>yes</td>
<td>4 to 5</td>
<td>recommended</td>
<td>pinch to node #3 but before developing node #5; Avoid overmisting/ watering of young plants. To avoid dormancy, tuberous Begonia requires a minimum day length of 14 hrs. and a minimum temperature of 55°F/13°C.</td>
</tr>
<tr>
<td>Bidens</td>
<td>Bidens ferulifolia</td>
<td>25 mm</td>
<td>no</td>
<td>7 to 9</td>
<td>yes</td>
<td>3 to 4</td>
<td>optional</td>
<td>Avoid stretch.</td>
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<tr>
<td>Bracteantha</td>
<td>Bracteantha bracteata</td>
<td>25/35 mm</td>
<td>recommended</td>
<td>9 to 12</td>
<td>no</td>
<td>4 to 5</td>
<td>no</td>
<td>Reduce mist as soon as possible; apply preventive fungicide treatment after sticking.</td>
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<td>Calceolaria</td>
<td>Calceolaria hybridra</td>
<td>35/45 mm</td>
<td>recommended</td>
<td>9 to 12</td>
<td>no</td>
<td>5 to 6</td>
<td>no</td>
<td>Cool and humid conditions provide best environment for rooting. Avoid standing water on leaves, over-misting, heavily saturated media and overly warm conditions.</td>
</tr>
<tr>
<td>Calibrachoa</td>
<td>Calibrachoa cultivars</td>
<td>25 mm</td>
<td>optional</td>
<td>9 to 12</td>
<td>yes</td>
<td>4 to 5</td>
<td>optional</td>
<td>Don’t stick too deep; avoid overwatering of young plants and water stress.</td>
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<td>Calibrachoa hybridra</td>
<td>20 mm</td>
<td>no</td>
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<td>optional</td>
<td>4 to 5</td>
<td>optional</td>
<td>Stick right after arrival. Apply preventive fungicide treatment after sticking and reduce mist as soon as possible.</td>
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<td>Convolvulus</td>
<td>Convolvulus sabatius</td>
<td>25 mm</td>
<td>optional</td>
<td>9 to 12</td>
<td>yes</td>
<td>4 to 5</td>
<td>optional</td>
<td></td>
</tr>
<tr>
<td>Cuphea</td>
<td>Cuphea hyssopifolia</td>
<td>20 mm</td>
<td>optional</td>
<td>14</td>
<td>no</td>
<td>5</td>
<td>optional</td>
<td></td>
</tr>
<tr>
<td>Dahlia</td>
<td>Dahlia hybrida</td>
<td>25 mm</td>
<td>yes</td>
<td>9 to 12</td>
<td>yes, B-Nine 1,500 PPM (S)</td>
<td>5</td>
<td>yes</td>
<td>Hormone will improve rooting. Night-break lighting (10 p.m.-2 a.m.) will reduce likelihood of tuber formation.</td>
</tr>
<tr>
<td>Dahlia</td>
<td>Dahlia pinnata</td>
<td>25 mm</td>
<td>yes</td>
<td>9 to 12</td>
<td>no</td>
<td>3 to 4</td>
<td>optional</td>
<td></td>
</tr>
<tr>
<td>Dahlia</td>
<td>Dalaya</td>
<td>25 mm</td>
<td>yes</td>
<td>9 to 12</td>
<td>Apply B-Nine 1,500 PPM (S)</td>
<td>5</td>
<td>yes</td>
<td>Rooting hormone will even out rooting. Night interruption or extended day will help prevent tuber formation in short day seasons.</td>
</tr>
</tbody>
</table>

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(S) = Spray
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1 PGR applications during rooting: Sprays only. Cover and avoid run-off as much as possible. For vigorous products, first application should be done about 7-10 days after sticking, second when needed. Please test before use.
# Rooting Guide

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<tr>
<th>Crop</th>
<th>Series/Variety</th>
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<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dahlia</strong> Dahlia pinnata</td>
<td>Ventil™</td>
<td>25 mm</td>
<td>yes</td>
<td>9 to 12</td>
<td>Apply B-Nine 1500 PPM (5)</td>
<td>5</td>
<td>yes</td>
<td>Begin feed regime as soon as roots are present to keep plant herbaceous. When propagating in short day season, give long days during liner growing.</td>
</tr>
<tr>
<td><strong>Dianthus</strong> Dianthus cultivars</td>
<td>Carmen™, Early Love*</td>
<td>25/35 mm</td>
<td>recommended</td>
<td>14 to 21</td>
<td>No</td>
<td>5 to 6</td>
<td>recommended</td>
<td>Keep very moist for the first 7 days, then reduce mist to avoid saturated media.</td>
</tr>
<tr>
<td><strong>Dianthus</strong> Dianthus caryophyllus</td>
<td>DiaDeur™</td>
<td>25/35 mm</td>
<td>recommended</td>
<td>14 to 21</td>
<td>No</td>
<td>5 to 6</td>
<td>recommended</td>
<td>Reduce mist after 4 to 5 days to promote root formation. Avoid excessive moisture in propagation media.</td>
</tr>
<tr>
<td><strong>Dianthus</strong> Dianthus cultivars</td>
<td>Dianthalot™, Pink Kisses*</td>
<td>25/35 mm</td>
<td>recommended</td>
<td>14 to 21</td>
<td>No</td>
<td>5 to 6</td>
<td>recommended</td>
<td>Keep hydrated. Sensitive root system; avoid overwatering of young plants.</td>
</tr>
<tr>
<td><strong>Dianthus</strong> Dianthus caryophyllus</td>
<td>EverLast™</td>
<td>25/35 mm</td>
<td>recommended</td>
<td>14 to 21</td>
<td>No</td>
<td>5 to 6</td>
<td>recommended</td>
<td>Keep hydrated. Sensitive root system; avoid overwatering of young plants.</td>
</tr>
<tr>
<td><strong>Dianthus</strong> Dianthus caryophyllus</td>
<td>I Love U</td>
<td>25/35 mm</td>
<td>recommended</td>
<td>14 to 21</td>
<td>No</td>
<td>5 to 6</td>
<td>optional</td>
<td>Keep very moist for the first several days in propagation, then begin to lower the mist. Should be well rooted in 14 to 16 days.</td>
</tr>
<tr>
<td><strong>Dianthus</strong> Dianthus caryophyllus</td>
<td>Oscar®, Scully, SuperTrouper®</td>
<td>25/35 mm</td>
<td>recommended</td>
<td>14 to 21</td>
<td>No</td>
<td>5 to 6</td>
<td>recommended</td>
<td>Keep hydrated. Sensitive root system; avoid overwatering of young plants.</td>
</tr>
<tr>
<td><strong>Dianthus</strong> Dianthus cultivars</td>
<td>Palm Peach</td>
<td>25 mm</td>
<td>optional</td>
<td>14 to 21</td>
<td>No</td>
<td>5 to 6</td>
<td>recommended</td>
<td>Keep moist for the first week in propagation, then back down on mist rapidly to avoid rot.</td>
</tr>
<tr>
<td><strong>Dianthus</strong> Dianthus cultivars</td>
<td>Purple Wedding™</td>
<td>25/35 mm</td>
<td>recommended</td>
<td>14 to 21</td>
<td>No</td>
<td>5 to 6</td>
<td>recommended</td>
<td>Keep cuttings hydrated. Sensitive root system; avoid overwatering of young plants.</td>
</tr>
<tr>
<td><strong>Diascia</strong> Diascia cultivars</td>
<td>Piccadilly™</td>
<td>25 mm</td>
<td>no</td>
<td>7 to 9</td>
<td>Yes</td>
<td>3 to 4</td>
<td>recommended</td>
<td>Stick 2 cuttings per cell.</td>
</tr>
<tr>
<td><strong>Euphorbia</strong> Euphorbia hypericifolia</td>
<td>Loreen™</td>
<td>25/35 mm</td>
<td>optional</td>
<td>7 to 10</td>
<td>Apply B-Nine/ Cycocel tank mix (5) 7 to 10 days after stick</td>
<td>3 to 4</td>
<td>recommended</td>
<td>Ethylene sensitive, so stick as soon as possible. Flower buds are common in propagation. Reduce mist as soon as possible.</td>
</tr>
<tr>
<td><strong>Fuchsia</strong> Fuchsia cultivars</td>
<td>Bellinto™</td>
<td>25 mm</td>
<td>no</td>
<td>7 to 10</td>
<td>No</td>
<td>4</td>
<td>yes</td>
<td>Avoid stretch and overwatering of young plants.</td>
</tr>
<tr>
<td><strong>Gaura</strong> Gaura lindheimeri</td>
<td>Belleza*</td>
<td>25 mm</td>
<td>optional</td>
<td>7 to 9</td>
<td>Yes</td>
<td>4</td>
<td>optional</td>
<td>Avoid stretch.</td>
</tr>
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1 PGR applications during rooting: Sprays only. Cover the plants and avoid run-off as much as possible. For vigorous products, first application should be done about 7-10 days after sticking, second when needed. Please test before use.
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<tbody>
<tr>
<td>Geranium (Interspecific) Pelargonium cultivars</td>
<td>Marcada™</td>
<td>30/40 mm</td>
<td>yes</td>
<td>14</td>
<td>yes</td>
<td>5</td>
<td>no</td>
<td>In hot climates, use Cycocel (S) at 500 PPM.</td>
</tr>
<tr>
<td>Geranium (Ivy) Pelargonium peltatum</td>
<td>Balcon, Decora, Royal™</td>
<td>25/35 mm single or double strip</td>
<td>yes</td>
<td>14</td>
<td>yes</td>
<td>4 to 5</td>
<td>no</td>
<td>Stick right after arrival, keep cuttings hydrated for the first 3 days, and reduce mist afterwards as soon as possible. Apply preventive fungicide treatment after sticking. Avoid stretch.</td>
</tr>
<tr>
<td>Geranium (Ivy) Pelargonium peltatum</td>
<td>Glacier White</td>
<td>30/40 mm</td>
<td>yes</td>
<td>14</td>
<td>optional</td>
<td>5</td>
<td>optional</td>
<td>Use Cycocel (S) at a rate of 500 to 750 PPM if needed.</td>
</tr>
<tr>
<td>Geranium (Zonal) Pelargonium x hortorum</td>
<td>Moonlight™, Sunrise™</td>
<td>25/35 mm single or double strip</td>
<td>optional</td>
<td>7 to 9</td>
<td>no</td>
<td>4</td>
<td>no</td>
<td>Stick right after arrival, keep cuttings hydrated for the first 3 days, and reduce mist afterwards as soon as possible. Apply preventive fungicide treatment after sticking.</td>
</tr>
<tr>
<td>Geranium (Zonal) Pelargonium x hortorum</td>
<td>Super Moon Red</td>
<td>30 mm</td>
<td>yes</td>
<td>7 to 9</td>
<td>yes</td>
<td>5</td>
<td>no</td>
<td>Cycocel 750 PPM spray.</td>
</tr>
<tr>
<td>Glechoma Glechoma hederacea</td>
<td>Variegata</td>
<td>20 mm</td>
<td>no</td>
<td>6</td>
<td>no</td>
<td>4</td>
<td>yes</td>
<td>Vining plant; pinching will help with branching and with avoiding cross-tangling of cells.</td>
</tr>
<tr>
<td>Helichrysum Helichrysum italicum</td>
<td>Silver</td>
<td>25 mm</td>
<td>optional</td>
<td>15</td>
<td>optional</td>
<td>5</td>
<td>no</td>
<td></td>
</tr>
<tr>
<td>Heliotrope Heliotropium arborescens</td>
<td>Marino™</td>
<td>25 mm</td>
<td>optional</td>
<td>7 to 9</td>
<td>no</td>
<td>4</td>
<td>no</td>
<td>Stick right after arrival. Don’t put URC in the cooler; apply preventive fungicide treatment after sticking and reduce mist as soon as possible.</td>
</tr>
<tr>
<td>Impatiens (Interspecific) Impatiens hawkeri</td>
<td>Bounce™</td>
<td>25 mm</td>
<td>no</td>
<td>6 to 9</td>
<td>yes</td>
<td>4 to 5</td>
<td>no</td>
<td>Reduce mist starting day 5; don’t overwater.</td>
</tr>
<tr>
<td>Impatiens (New Guinea) Impatiens hawkeri</td>
<td>ColorPower™</td>
<td>25 mm</td>
<td>no</td>
<td>7 to 9</td>
<td>no</td>
<td>3 to 4</td>
<td>no</td>
<td>Stick right after arrival. Apply preventive fungicide treatment after sticking and reduce mist as soon as possible.</td>
</tr>
<tr>
<td>Impatiens (New Guinea) Impatiens hawkeri</td>
<td>ImPower™</td>
<td>30 mm</td>
<td>no</td>
<td>7 to 9</td>
<td>no</td>
<td>4</td>
<td>no</td>
<td></td>
</tr>
<tr>
<td>Kalanchoe Kalanchoe blossfeldiana</td>
<td>Mandala™</td>
<td>25/35 mm</td>
<td>optional</td>
<td>N/A</td>
<td>no</td>
<td>3 to 5</td>
<td>no</td>
<td>Stick cuttings in moist media. Only apply water when media is dry. No misting.</td>
</tr>
</tbody>
</table>
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</thead>
<tbody>
<tr>
<td>Lavandula</td>
<td>Sweet Dreams™</td>
<td>20/30 mm</td>
<td>optional</td>
<td>12</td>
<td>no</td>
<td>6</td>
<td>yes</td>
<td>Reduce mist after day 5 to avoid rot and to drive root development.</td>
</tr>
<tr>
<td>Lavandula angustifolia</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Lavandula stoechas</td>
<td>LaVela™</td>
<td>25 mm</td>
<td>no</td>
<td>14</td>
<td>no</td>
<td>6 to 7</td>
<td>yes</td>
<td>Use well-drained media. Avoid saturated media. Reduce mist early.</td>
</tr>
<tr>
<td>Lobelia</td>
<td>Magadi™ Basket</td>
<td>20 mm</td>
<td>no</td>
<td>14</td>
<td>optional</td>
<td>4</td>
<td>yes</td>
<td></td>
</tr>
<tr>
<td>Lobelia cultivars</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lobelia</td>
<td>Magadi™, Magadi™ Compact</td>
<td>25 mm</td>
<td>no</td>
<td>7 to 9</td>
<td>yes</td>
<td>4</td>
<td>recommended</td>
<td>Keep cuttings hydrated. Avoid overwatering of young plants.</td>
</tr>
<tr>
<td>Lobelia cultivars</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lobularia</td>
<td>Featherlight</td>
<td>20/30 mm</td>
<td>no</td>
<td>10</td>
<td>optional</td>
<td>4</td>
<td>no</td>
<td></td>
</tr>
<tr>
<td>Lobularia maritima</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Lysimachia</td>
<td>Goldilocks</td>
<td>20 mm</td>
<td>no</td>
<td>7 to 9</td>
<td>no</td>
<td>5</td>
<td>optional</td>
<td></td>
</tr>
<tr>
<td>Lysimachia nummularia</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Mandevilla</td>
<td>Magnetica™</td>
<td>30/40 mm</td>
<td>optional</td>
<td>14</td>
<td>optional</td>
<td>6 to 8</td>
<td>no</td>
<td></td>
</tr>
<tr>
<td>Mandevilla sanderi</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Muehlenbeckia</td>
<td>Muehlenbeckia complexa</td>
<td>25/35 mm</td>
<td>optional</td>
<td>14 to 21</td>
<td>no</td>
<td>5 to 6</td>
<td>recommended</td>
<td></td>
</tr>
<tr>
<td>Muehlenbeckia complexa</td>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Osteospernum</td>
<td>4D™</td>
<td>25/35 mm</td>
<td>recommended</td>
<td>12 to 16</td>
<td>yes</td>
<td>4 to 5</td>
<td>no</td>
<td>Keep cuttings hydrated.</td>
</tr>
<tr>
<td>Osteospernum hybrid</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Osteospernum Daisy Falls</td>
<td></td>
<td>30 mm</td>
<td>yes</td>
<td>12 to 16</td>
<td>yes</td>
<td>4</td>
<td>optional</td>
<td></td>
</tr>
<tr>
<td>Osteospernum ecklonis</td>
<td>FlowerPower™ Compact, FlowerPower™ Spider, Zion™</td>
<td>25/35 mm</td>
<td>recommended</td>
<td>12 to 16</td>
<td>yes</td>
<td>4 to 5</td>
<td>no</td>
<td>Keep cuttings hydrated.</td>
</tr>
<tr>
<td>Pericallis Senecio x hybrida</td>
<td>Senetti™</td>
<td>25 mm</td>
<td>yes</td>
<td>21</td>
<td>optional</td>
<td>4</td>
<td>yes</td>
<td>Keep humidity high to ensure cuttings are kept moist. After 14 days of misting, cut misting time in half. Shade may be required to protect leaves. Use fertilizer once roots develop.</td>
</tr>
<tr>
<td>Pericallis Senecio x hybrida</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Petunia</td>
<td>Headliner™, Starlet™, SweetSunshine™</td>
<td>25 mm</td>
<td>no</td>
<td>7 to 9</td>
<td>yes</td>
<td>4</td>
<td>no</td>
<td>Avoid stretch; apply preventive fungicide spray after sticking. For detailed culture on the Sky Petunias visit SelectaNorthAmerica.com/SkyPetuniaCulture</td>
</tr>
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<tr>
<td><strong>Petunia</strong></td>
<td><strong>Main Stage™</strong></td>
<td>30 mm</td>
<td>no</td>
<td>7 to 9</td>
<td>yes</td>
<td>4</td>
<td>optional</td>
<td>For detailed culture on the Sky Petunias visit SelectaNorthAmerica.com/SkyPetuniaCulture</td>
</tr>
<tr>
<td><strong>Phlox</strong></td>
<td><strong>Gisele®</strong></td>
<td>25 mm</td>
<td>no</td>
<td>12</td>
<td>no</td>
<td>4 to 5</td>
<td>no</td>
<td>Avoid over-misting and misting after rooting.</td>
</tr>
<tr>
<td><strong>Portulaca</strong></td>
<td><strong>PortoGrande™</strong></td>
<td>25 mm</td>
<td>no</td>
<td>7 to 9</td>
<td>no</td>
<td>3 to 4</td>
<td>optional</td>
<td>Avoid overwatering of young plants.</td>
</tr>
<tr>
<td><strong>Salvia</strong></td>
<td><strong>Skyscraper™</strong></td>
<td>25 mm</td>
<td>optional</td>
<td>14</td>
<td>yes</td>
<td>4</td>
<td>yes</td>
<td>Use B-Nine 2,500 PPM spray.</td>
</tr>
<tr>
<td><strong>Sanvitalia</strong></td>
<td><strong>Tsavo™</strong></td>
<td>25 mm</td>
<td>no</td>
<td>7 to 9</td>
<td>yes</td>
<td>4</td>
<td>optional</td>
<td>Keep cuttings hydrated; avoid overwatering of young plants.</td>
</tr>
<tr>
<td><strong>Scaevola</strong></td>
<td><strong>Fairy™</strong></td>
<td>25 mm</td>
<td>recommended</td>
<td>9 to 12</td>
<td>yes</td>
<td>5 to 6</td>
<td>optional</td>
<td>Keep cuttings hydrated.</td>
</tr>
<tr>
<td><strong>Sedum</strong></td>
<td><em><strong>Sedum mexicanum</strong></em></td>
<td>25/35 mm</td>
<td>no</td>
<td>12 to 18</td>
<td>no</td>
<td>5 to 6</td>
<td>no</td>
<td></td>
</tr>
<tr>
<td><strong>Trixi®</strong></td>
<td><strong>Trixi recipes</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>TrixiLiners ship pinched</td>
<td>TrixiLiner is pinched, treated with PGR, and well-toned for best results.</td>
</tr>
<tr>
<td><strong>Verbena</strong></td>
<td><strong>Beats™</strong></td>
<td>25 mm</td>
<td>optional</td>
<td>7 to 9</td>
<td>no</td>
<td>2 to 3</td>
<td>optional</td>
<td>Avoid overwatering after root formation.</td>
</tr>
<tr>
<td><strong>Verbena</strong></td>
<td><strong>BeBop™, Blues™, Lascar™</strong></td>
<td>25 mm</td>
<td>optional</td>
<td>7 to 9</td>
<td>yes</td>
<td>3 to 4</td>
<td>optional</td>
<td>Avoid stretch; reduce and stop misting as soon as possible.</td>
</tr>
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(D) = Drench

All recommendations are made to the best of our knowledge. We cannot accept any responsibility for the correctness of this information in unique situations. Please pay attention to product labels and test chemicals or new treatments first before applying large scale.

1 PGR applications during rooting: Sprays only. Cover the plants and avoid run-off as much as possible. For vigorous products, first application should be done about 7-10 days after sticking, second when needed. Please test before use.

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## Finishing Guide

### Rooting & Finishing

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<tr>
<th>Crop</th>
<th>Series/Variety</th>
<th>Media pH</th>
<th>Fertilizer Needs</th>
<th>Watering</th>
<th>Temperature Needs</th>
<th>Pinch after Transplant</th>
<th>Light Levels in Foot Candles</th>
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</thead>
<tbody>
<tr>
<td><strong>Bacopa</strong>&lt;br&gt;Surinamemodern</td>
<td>Big Falls™&lt;br&gt;Suriname modern</td>
<td>5.4-5.8</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>Grow on the dry side</td>
<td>65-75°F/50-60°F 18-24°C/10-16°C</td>
<td>Yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Begonia</strong>&lt;br&gt;Begonia boliviensis</td>
<td>Compact Double Apricot, Mistral™</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0 - Keep N up</td>
<td>Grow on the dry side</td>
<td>68-78°F/62-65°F 20-26°C/17-18°C</td>
<td>Yes; pinch to node #3 but before developing node #5</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Begonia</strong>&lt;br&gt;Begonia cultivars</td>
<td>Compact Marshmallow</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>Keep constantly moist</td>
<td>65-75°F/50-60°F 18-24°C/10-16°C</td>
<td>For larger pots only</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Bidens</strong>&lt;br&gt;Bidens ferulifolia</td>
<td>Namid™</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>Grow on the dry side</td>
<td>65-75°F/50-60°F 18-24°C/10-16°C</td>
<td>Yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Bracteantha</strong>&lt;br&gt;Bracteantha bracteata</td>
<td>Mohave™</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>Grow on the dry side</td>
<td>65-75°F/50-60°F 18-24°C/10-16°C</td>
<td>No</td>
<td>4,000 to 6,000</td>
</tr>
<tr>
<td><strong>Calceolaria</strong>&lt;br&gt;Calceolaria hybrida</td>
<td>Calynopsis™</td>
<td>5.8</td>
<td>200-250 PPM N</td>
<td>Grow on the dry side</td>
<td>55-76°F/40-52°F 13-24°C/4-11°C</td>
<td>No</td>
<td>4,000 to 6,000</td>
</tr>
<tr>
<td><strong>Calibrachoa</strong>&lt;br&gt;Calibrachoa cultivars</td>
<td>MiniFamous®, Neo</td>
<td>5.4-5.8</td>
<td>200-250 PPM N/EC 2.0-2.4</td>
<td>Keep evenly moist</td>
<td>70-75°F/55-60°F 21-24°C/13-16°C</td>
<td>Recommended</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Calibrachoa</strong>&lt;br&gt;Calibrachoa hybrida</td>
<td>MiniFamous®, Uno</td>
<td>5.5-6.2</td>
<td>200-250 PPM N/EC 2.0-2.4</td>
<td>Keep evenly moist</td>
<td>65-80°F/55-65°F 18-27°C/13-18°C</td>
<td>Optional</td>
<td>4,000 to 7,000</td>
</tr>
<tr>
<td><strong>Convulvulus</strong>&lt;br&gt;Convulvulus sabatius</td>
<td>Early Blue, Prime White</td>
<td>5.8-6.2</td>
<td>225-300 PPM N</td>
<td>Keep evenly moist</td>
<td>70-75°F/55-60°F 21-24°C/13-16°C</td>
<td>Recommended</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Cuphea</strong>&lt;br&gt;Cuphea hyssopifolia</td>
<td>Pink, Purple, White</td>
<td>5.5-6.4</td>
<td>200 PPM N/EC 2.0-2.4</td>
<td>Keep evenly moist</td>
<td>65-77°F/55-65°F 18-25°C/13-18°C</td>
<td>Yes</td>
<td>4,000 to 7,000</td>
</tr>
<tr>
<td><strong>Dahlia</strong>&lt;br&gt;Dahlia hybrida</td>
<td>City Lights™</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>High</td>
<td>65-76°F/59-64°F 18-24°C/15-18°C</td>
<td>Recommended</td>
<td>4,000 to 6,000</td>
</tr>
<tr>
<td><strong>Dahlia</strong>&lt;br&gt;Dahlia pinnata</td>
<td>Dahlia™</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>Keep evenly moist</td>
<td>65-76°F/59-64°F 18-24°C/15-18°C</td>
<td>Optional</td>
<td>4,000 to 6,000</td>
</tr>
<tr>
<td><strong>Dahlia</strong>&lt;br&gt;Dahlia pinnata</td>
<td>Dahlia™</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>Keep evenly moist</td>
<td>65-76°F/59-64°F 18-24°C/15-18°C</td>
<td>Optional</td>
<td>4,000 to 6,000</td>
</tr>
</tbody>
</table>

### Finishing Guidelines

**Media pH:** Best results are achieved if media with the correct pH is used starting with propagation.

**Fertilizer Needs:** Start with low concentrations after roots show and increase with plant development to the recommended levels.

**Watering:** In general, avoid drying out or overwatering the substrate as this will affect plant quality and finishing time. Root system will suffer when conditions change from one extreme to the other. “Growing on the dry side” means letting the substrate become dry (substrate color turns light brown and substrate starts to separate from the pot edge) before watering. “Keep constantly moist” means watering the plants just before substrate dryness becomes dry. Water management in rooting and finishing is half the success and the best way to prevent root-bound diseases, improve performance and control plant quality.

---

**Crop Time from Rooted Cutting/Plants Per Pot (PPP):**

- **4,000:** Temperatures are moderate.
- **200-250 PPM:** Allow N at lower ranges.
- **5.8-6.2:** Temperatures are modest. Keep N at 150-200 ppm.

**Temperature Needs:**

- **65-77°F/55-65°F 18-24°C/13-18°C:** For larger pots, minimum temperature of 55°F/13°C.
- **225-300 PPM N:** Keep evenly moist until 65°F/18°C.

**Diseases:**

- **Botrytis, Pythium, Powdery Mildew, Phytophthora, Spider Mites, Thrips, Gnats, Leafminer, Aphids, Fungus**

**Comments:**

- **1 ppp:** Start late Spring when day length increases. Cool temperatures and high light levels will improve plant quality. Pinch as needed for improved plant habit.
- **7 to 8 weeks:** Let media dry out between watering. Avoid stretch. To avoid temperatures rise. Let media dry out before watering. "Keep constantly moist" means watering the plants just before substrate dryness becomes dry. Water management in rooting and finishing is half the success and the best way to prevent root-bound diseases, improve performance and control plant quality.
### Plant Growth Regulators (PGR)

- **B-Nine 750-1,500 PPM (S), Sumagic 5-10 PPM (S)/Sumagic 0.25 PPM (D)**
  - **Thrips, Aphids, Botrytis, Pythium**: Cool temperatures and high light levels will improve plant quality. Pinch as needed for improved plant habit. Watch for Fe deficiency.
  - **Comments**: 5 to 7 weeks, 1 ppp; 7 to 9 weeks, 2 ppp; 8 to 10 weeks, 4 to 5 ppp

- **B-Nine 2,500 PPM (S), 250-500 PPM Cycocel (S)**
  - **Aphids, Botrytis, Pythium**: Start late Spring when day length increases and temperatures rise. Let media dry out between watering. Avoid stretch. To avoid dormancy, tuberous Begonias require a minimum day length of 14 hrs. and a minimum temperature of 55°F/13°C.
  - **Comments**: 7 to 8 weeks, 1 ppp; 9 to 10 weeks, 1 ppp; 9 to 12 weeks, 4 ppp

- **B-Nine 2,500 PPM (S), 250-500 PPM Cycocel (S)**
  - **Thrips, Aphids, Spider Mites, Botrytis, Pythium**: Pinch as needed for improved plant habit. Let media dry out between watering.
  - **Comments**: 5 to 7 weeks, 1 ppp; 6 to 8 weeks, 1 to 2 ppp; 6 to 9 weeks, 4 to 5 ppp

- **Sumagic 5-10 PPM (S), Bonzi 10-20 PPM (S)**
  - **Aphids, White Fly, Pythium**: Cool temperatures and high light levels will improve plant quality.
  - **Comments**: 6 to 7 weeks, 1 ppp; 7 to 8 weeks, 2 ppp; 8 to 10 weeks, 4 ppp (Mohave™ Basket Yellow)

- **none**
  - **Spider Mites**: Provide cool temperatures and short days during bulking period. Provide long days (night interrupt) and cool to moderate temperatures for flower induction.
  - **Comments**: 8 to 10 weeks, 1 ppp; 10 to 12 weeks, 1 ppp; 13 to 15 weeks, 3 ppp

- **B-Nine 2,500-3,500 PPM (S), Sumagic 10-20 PPM (S)/Sumagic 0.25 PPM (D), Bonzi 1-2 PPM (D)**
  - **Powdery Mildew, Pythium, Thielaviopsis, TMV, Aphids, Fungus Gnats, Thrips**: Start Calibrachoa warm. After side shoots have developed, cool temperatures and high light levels will improve plant quality. Watch for Fe deficiency.
  - **Comments**: 7 to 8 weeks, 1 ppp; 7 to 11 weeks, 1 to 2 ppp; 9 to 12 weeks, 4 to 5 ppp

- **B-Nine 1,500 PPM (S), Bonzi 1 PPM (D)**
  - **Thielaviopsis, Powdery Mildew, Aphids, Mites**: Can be grown dryer to promote higher flower count.
  - **Comments**: 5 to 7 weeks, 1 ppp; 7 to 9 weeks, 1 ppp; 10 to 14 weeks, 3 to 4 ppp

- **B-Nine 2,500-3,500 PPM (S), Sumagic 10-20 PPM (S)/Sumagic 0.25 PPM (D), Bonzi 1-2 PPM (D)**
  - **Aphids, Mites, Thrips**: Night-break lighting will reduce likelihood of tuber formation.
  - **Comments**: 6 to 8 weeks, 1 ppp; 7 to 9 weeks, 1 to 2 ppp

- **none**
  - **Aphids, Mites, Botrytis**: Avoid cold conditions and dry down during short days to avoid tuber formation.
  - **Comments**: 6 to 8 weeks, 1 ppp; 7 to 9 weeks, 1 to 2 ppp

### Pests and Fungal Diseases

- **Thrips, Aphids, Botrytis, Pythium**
- **Powdery Mildew, Pythium, Thielaviopsis, TMV, Aphids, Fungus Gnats, Thrips**
- **Thielaviopsis, Powdery Mildew, Aphids, Mites**
- **Aphids, Mites, Thrips**
- **Aphids, Fungus Gnats, Leafminer, Spider Mites**
- **Aphids, Fungus Gnats, Leafminer, Spider Mites, Thrips**
- **Aphids, Fungus Gnats, Leafminer, Spider Mites, Thrips, Phytophthora, Powdery Mildew, Pythium**
- **Aphids, Mites, Thrips**

### Finishing Guidelines

**Crop Time from Rooted Cutting/Plants Per Pot (PPP)**

<table>
<thead>
<tr>
<th>Plant Growth Regulators (PGR)</th>
<th>4 to 5-inch (10 to 15-cm) Pots, Quarts</th>
<th>6-inch (15-cm) Pots, Gallons</th>
<th>10 to 12-inch (25 to 30-cm) Tub or Baskets</th>
</tr>
</thead>
<tbody>
<tr>
<td>(S) = Spray / (D) = Drench</td>
<td>Cool temperatures and high light levels will improve plant quality. Pinch as needed for improved plant habit. Watch for Fe deficiency.</td>
<td>Keep evenly moist</td>
<td>Keep evenly dry side grow on the dry side</td>
</tr>
<tr>
<td><strong>Temperature needs day/night:</strong></td>
<td>65-76°F/59-64°F</td>
<td>65-80°F/55-65°F</td>
<td>65-75°F/50-60°F</td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>Crop</th>
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<th>Media pH</th>
<th>Fertilizer Needs</th>
<th>Watering</th>
<th>Temperature Needs Day / Night</th>
<th>Pinch after Transplant (unpinched liners)</th>
<th>Light Levels in Foot Candles</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dahlia</strong></td>
<td>Dalaya®</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.2</td>
<td>maintain even moisture and consistent fertility for best uniformity</td>
<td>65-68°F/55-65°F 18-26°C/13-18°C</td>
<td>yes</td>
<td>5,000 to 7,000</td>
</tr>
<tr>
<td><strong>Dahlia</strong></td>
<td>Dahlia pinnata</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.2</td>
<td>keep constantly moist</td>
<td>70-75°F/55-60°F 21-24°C/13-16°C</td>
<td>optional</td>
<td>4,000 to 7,000</td>
</tr>
<tr>
<td><strong>Dianthus</strong></td>
<td>Carmen™</td>
<td>6.2-6.5</td>
<td>100-150 PPM N/EC 1.4-1.8</td>
<td>grow on the dry side</td>
<td>65-70°F/50-55°F 18-21°C/10-13°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Dianthus</strong></td>
<td>DiaDeur™</td>
<td>6.2-6.5</td>
<td>100-150 PPM N/EC 1.4-1.8</td>
<td>grow on the dry side</td>
<td>65-70°F/50-55°F 18-21°C/10-13°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Dianthus</strong></td>
<td>Dianthalot™</td>
<td>6.2-6.5</td>
<td>100-150 PPM N</td>
<td>keep hydrated</td>
<td>65-70°F/50-55°F 18-21°C/10-13°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Dianthus</strong></td>
<td>Early Love®</td>
<td>6.2-6.5</td>
<td>100-150 PPM N/EC 1.4-1.8</td>
<td>grow on the dry side</td>
<td>65-70°F/50-55°F 18-21°C/10-13°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Dianthus</strong></td>
<td>EverLast™</td>
<td>6.2-6.5</td>
<td>100-150 PPM N/EC 1.4-1.8</td>
<td>grow on the dry side</td>
<td>65-70°F/50-55°F 18-21°C/10-13°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Dianthus</strong></td>
<td>I Love U</td>
<td>5.8-6.5</td>
<td>100-150 PPM N/EC 1.4-1.8</td>
<td>avoid hard dry down</td>
<td>55-68°F/45-55°F 13-20°C/7-13°C</td>
<td>optional</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Dianthus</strong></td>
<td>Oscar®</td>
<td>6.2-6.5</td>
<td>100-150 PPM N/EC 1.4-1.8</td>
<td>grow on the dry side</td>
<td>65-70°F/50-55°F 18-21°C/10-13°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Dianthus</strong></td>
<td>Palm Peach</td>
<td>6.2-6.5</td>
<td>100-150 PPM N/EC 1.4-1.8</td>
<td>grow on the dry side</td>
<td>65-70°F/50-55°F 18-21°C/10-13°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Dianthus</strong></td>
<td>Pink Kisses®</td>
<td>6.2-6.5</td>
<td>100-150 PPM N/EC 1.4-1.8</td>
<td>grow on the dry side</td>
<td>65-70°F/50-55°F 18-21°C/10-13°C</td>
<td>optional based on liner</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Dianthus</strong></td>
<td>Purple Wedding™</td>
<td>6.2-6.5</td>
<td>100-150 PPM N/EC 1.4-1.8</td>
<td>grow on the dry side</td>
<td>65-70°F/50-55°F 18-21°C/10-13°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
</tbody>
</table>

### Table Notes:

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<th>Pests and Fungal Diseases</th>
<th>Comments</th>
<th>4 to 5-inch (10 to 15-cm) Pots, Quarts</th>
<th>6-inch (15-cm) Pots, Gallons</th>
<th>10 to 12-inch (25 to 30-cm) Tubs or Baskets</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-Nine 1,500-2,500 PPM (S), B-Nine 1,500 PPM (S)/ Cycocel 750 PPM (S) tank mix, Bonzi 2-4 PPM (D)</td>
<td>Thrips, Leafminers, Aphids, Botrytis</td>
<td>Night-break or extended day lighting during early Spring (natural short days) will help prevent tuber formation.</td>
<td>6 to 8 weeks, 1 ppp</td>
<td>7 to 9 weeks, 1 ppp</td>
<td>10 to 12 weeks, 3 to 4 ppp</td>
</tr>
<tr>
<td>B-Nine 1,500 PPM/ Cycocel 500 PPM (S), Paclobutrazol 1-2 PPM (D), Sumagic 0.5-1 PPM (D)</td>
<td>Phytophthora, Powdery Mildew, Botrytis, Pythium, Aphids, Leafminer, Spider Mites, Thrips</td>
<td>Manage humidity and avoid irrigation over blooms to prevent botrytis and powdery mildew.</td>
<td>5 to 7 weeks, 1 ppp</td>
<td>7 to 9 weeks, 1 ppp</td>
<td>10 to 14 weeks, 3 to 4 ppp</td>
</tr>
<tr>
<td>B-Nine 2,500 PPM (S), Bonzi 2 PPM (S)</td>
<td>Spider Mites, Fusarium</td>
<td>Remove early flower buds to promote branching. Cool temperatures and high light levels are ideal.</td>
<td>12 to 14 weeks (varies seasonally), 1 ppp</td>
<td>14 to 16 weeks (varies seasonally), 2 to 3 ppp</td>
<td>18 to 20 weeks (varies seasonally), 3 to 5 ppp</td>
</tr>
<tr>
<td>B-Nine 2,500 PPM (S), Cycocel 500-750 PPM (S), Bonzi 2-5 PPM are all effective PGRs if needed.</td>
<td>Spider Mites, Fusarium</td>
<td>Pinch when bud is visible and side shoots start to develop. Cool temperatures and high light levels will improve plant quality.</td>
<td>14 to 20 weeks (varies seasonally), 1 ppp</td>
<td>16 to 22 weeks (varies seasonally), 2 ppp</td>
<td>16 to 22 weeks (varies seasonally), 4 to 5 ppp</td>
</tr>
<tr>
<td>B-Nine 2,500 PPM (S), Bonzi 2-5 PPM (S); PGRs are optional.</td>
<td>Spider Mites, Rust, Fusarium</td>
<td>Pinch when bud is visible and side shoots start to develop. Cool temperatures and high light levels will improve plant quality.</td>
<td>10 to 18 weeks (varies seasonally), 1 ppp</td>
<td>12 to 20 weeks (varies seasonally), 2 ppp</td>
<td>12 to 20 weeks (varies seasonally), 4 to 5 ppp</td>
</tr>
<tr>
<td>Bonzi 1-2 PPM (S)</td>
<td>Spider Mites, Fusarium</td>
<td>Remove early flower buds to promote branching. Cool temperatures and high light levels are ideal.</td>
<td>10 to 12 weeks (varies seasonally), 1 ppp</td>
<td>12 to 14 weeks (varies seasonally), 2 to 3 ppp</td>
<td>12 to 14 weeks (varies seasonally), 3 to 5 ppp</td>
</tr>
<tr>
<td>B-Nine 2,500 PPM (S), Bonzi 2-5 PPM (S); PGRs are optional.</td>
<td>Spider Mites, Rust, Fusarium</td>
<td>Pinch when bud is visible and side shoots start to develop. Cool temperatures and high light levels will improve plant quality.</td>
<td>14 to 20 weeks (varies seasonally), 1 ppp</td>
<td>16 to 22 weeks (varies seasonally), 2 ppp</td>
<td>16 to 22 weeks (varies seasonally), 4 to 5 ppp</td>
</tr>
<tr>
<td>Very little should be needed. Bonzi 1-2 PPM (S) if necessary.</td>
<td>Spider Mites, Fusarium</td>
<td>Pinch when bud is visible and side shoots start to develop. Cool temperatures and high light levels will improve plant quality.</td>
<td>12 to 14 weeks (varies seasonally), 1 ppp</td>
<td>14 to 16 weeks (varies seasonally), 3 ppp</td>
<td>14 to 16 weeks (varies seasonally), 3 to 5 ppp</td>
</tr>
<tr>
<td>B-Nine 2,500 PPM (S), Bonzi 2-5 PPM (S); PGRs are optional.</td>
<td>Spider Mites, Rust, Fusarium</td>
<td>Pinch when bud is visible and side shoots start to develop. Cool temperatures and high light levels will improve plant quality.</td>
<td>14 to 20 weeks (varies seasonally), 1 ppp</td>
<td>16 to 22 weeks (varies seasonally), 2 ppp</td>
<td>16 to 22 weeks (varies seasonally), 4 to 5 ppp</td>
</tr>
<tr>
<td>Bonzi 1-2 PPM (S) only if needed</td>
<td>Spider Mites, Fusarium</td>
<td>Pinch when bud is visible and side shoots start to develop. Cool temperatures and high light levels will improve plant quality.</td>
<td>12 to 14 weeks (varies seasonally), 1 ppp</td>
<td>14 to 16 weeks (varies seasonally), 2 to 3 ppp</td>
<td>14 to 16 weeks (varies seasonally), 3 to 5 ppp</td>
</tr>
<tr>
<td>B-Nine 2,500 PPM (S), Bonzi 2-5 PPM (S); PGRs are optional.</td>
<td>Spider Mites, Rust, Fusarium</td>
<td>Leave early flowers on plant. Blooms last a long time.</td>
<td>14 to 20 weeks (varies seasonally), 1 ppp</td>
<td>16 to 22 weeks (varies seasonally), 2 ppp</td>
<td>14 to 16 weeks (varies seasonally), 3 to 5 ppp</td>
</tr>
<tr>
<td>Bonzi 2-4 PPM (S) if needed</td>
<td>Spider Mites, Fusarium</td>
<td>Pinch when bud is visible and side shoots start to develop. Cool temperatures and high light levels will improve plant quality.</td>
<td>12 to 14 weeks (varies seasonally), 1 ppp</td>
<td>14 to 16 weeks (varies seasonally), 2 to 3 ppp</td>
<td>14 to 16 weeks (varies seasonally), 3 to 5 ppp</td>
</tr>
</tbody>
</table>

* Temperature needs day/night: During rooting, keep soil temperature measured in the liner at 70°F/21°C until cuttings are well-rooted. After planting the liner, keep temperature up until roots have developed nicely. Afterward, follow recommendations. The use of “Cool Morning” treatments will improve plant quality, flower and foliage color, and plant habit, and harden the plants. Lower the temperature by 8-10°F/4-5°C 2 hours before sunrise until 2-3 hours after sunrise. Start treatments after plants are rooted in, well branched and cover the media (reach the pot edges). To avoid delayed flowering, keep the average day temperature under a close watch and if necessary, increase night temperatures. Finishing of the crop depends on the average day temperature, and positive or negative DIF methods as well as “Cool Morning” can be used to improve plant quality.
<table>
<thead>
<tr>
<th>Crop</th>
<th>Series/Variety</th>
<th>Media pH</th>
<th>Fertilizer Needs</th>
<th>Watering</th>
<th>Temperature Needs Day / Night</th>
<th>Pinch after Transplant</th>
<th>Light Levels in Foot Candles</th>
</tr>
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<tbody>
<tr>
<td><strong>Dianthus</strong>&lt;br&gt; Dianthus caryophyllus</td>
<td>Scully</td>
<td>6.2-6.5</td>
<td>100-150 PPM N/EC 1.4-1.8</td>
<td>grow on the dry side</td>
<td>55-68°F/45-55°F 15-20°C/7-13°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Dianthus</strong>&lt;br&gt; Dianthus caryophyllus</td>
<td>SuperTrouper™</td>
<td>5.8-6.5</td>
<td>100-150 PPM N/EC 1.4-1.8</td>
<td>grow on the dry side</td>
<td>65-75°F/50-55°F 18-21°C/10-13°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Diascia</strong>&lt;br&gt; Diascia cultivars</td>
<td>Piccadilly™</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>grow on the dry side</td>
<td>65-75°F/35-52°F 18-24°C/2-11°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Euphorbia</strong>&lt;br&gt; Euphorbia hypericifolia</td>
<td>Loreen™</td>
<td>5.8-6.2</td>
<td>175-225 PPM N/EC 1.8-2.0</td>
<td>sensitive to overwatering</td>
<td>65-76°F/59-67°F 18-24°C/15-19°C</td>
<td>yes</td>
<td>6,000 to 9,000</td>
</tr>
<tr>
<td><strong>Fuchsia</strong>&lt;br&gt; Fuchsia cultivars</td>
<td>Bellinto™</td>
<td>5.8-6.2</td>
<td>175-225 PPM N/EC 1.8-2.0</td>
<td>keep evenly moist</td>
<td>65-70°F/50-55°F 18-21°C/10-13°C</td>
<td>recommended</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Gaura</strong>&lt;br&gt; Gaura lindheimeri</td>
<td>Belleza®</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>keep constantly moist</td>
<td>65-75°F/50-60°F 18-24°C/10-16°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Geranium</strong> (Interspecific)&lt;br&gt; Pelargonium cultivars</td>
<td>Marcada™</td>
<td>5.4-5.9</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>moderate</td>
<td>55-80°F/50-68°F 13-27°C/10-20°C</td>
<td>optional</td>
<td>6,000+</td>
</tr>
<tr>
<td><strong>Geranium</strong> (Ivy)&lt;br&gt; Pelargonium peltatum</td>
<td>Balcon, Decora, Royal™</td>
<td>5.4-5.8</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>grow on the dry side</td>
<td>65-75°F/60-65°F 18-24°C/16-18°C</td>
<td>recommended</td>
<td>3,000 to 5,000</td>
</tr>
<tr>
<td><strong>Geranium</strong> (Ivy)&lt;br&gt; Pelargonium peltatum</td>
<td>Glacier White</td>
<td>5.4-5.9</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>moderate</td>
<td>55-80°F/50-65°F 15-27°C/10-18°C</td>
<td>yes</td>
<td>4,000 to 6,000</td>
</tr>
<tr>
<td><strong>Geranium</strong> (Zonal)&lt;br&gt; Pelargonium x hortorum</td>
<td>Moonlight™, Sunrise™</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>grow on the dry side</td>
<td>65-75°F/60-65°F 18-24°C/16-18°C</td>
<td>no</td>
<td>3,000 to 5,000</td>
</tr>
<tr>
<td><strong>Geranium</strong> (Zonal)&lt;br&gt; Pelargonium x hortorum</td>
<td>Super Moon Red</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>grow on the dry side</td>
<td>65-77°F/55-65°F 18-25°C/13-18°C</td>
<td>optional</td>
<td>4,000 to 7,000</td>
</tr>
<tr>
<td><strong>Glechoma</strong>&lt;br&gt; Glechoma hederacea</td>
<td>Variegata</td>
<td>5.4-6.5</td>
<td>moderate</td>
<td>150 PPM N</td>
<td>moderate</td>
<td>40-70°F/60-90°F 4-21°C/16-32°C</td>
<td>optional</td>
</tr>
<tr>
<td><strong>Helichrysum</strong>&lt;br&gt; Helichrysum italicum</td>
<td>Silver</td>
<td>5.8-6.2</td>
<td>moderate</td>
<td>moderate</td>
<td>60-70°F/45-55°F 16-21°C/7-13°C</td>
<td>no</td>
<td>4,000 to 7,000</td>
</tr>
</tbody>
</table>

*Media pH*: Best results are achieved if media with the correct pH is used starting with propagation.

*Fertilizer needs*: Start with low concentrations after roots show and increase with plant development to the recommended levels.

*Watering*: In general, avoid drying out or overwatering the substrate as this will affect plant quality and finishing time. Root system will suffer when conditions change from one extreme to the other. “Growing on the dry side” means letting the substrate become dry before watering. “Keep constantly moist” means watering the plants just before substrate becomes dry. Water management in rooting and finishing is half the success and the best way to prevent root-bound diseases, improve performance and control plant quality.
### FINISHING GUIDE

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<thead>
<tr>
<th>Plant Growth Regulators (PGR) (S) = Spray / (D) = Drench</th>
<th>Pests and Fungal Diseases</th>
<th>Comments</th>
<th>4 to 5-inch (10 to 15-cm) Pots, Quarts</th>
<th>6-inch (15-cm) Pots, Gallons</th>
<th>10 to 12-inch (25 to 30-cm) Tub or Baskets</th>
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<tr>
<td>Bonzi 1-2 PPM (S)</td>
<td>Aphids, Fusarium</td>
<td>Leave early flowers on plant. Blooms last a long time.</td>
<td>12 to 20 weeks (varies seasonally), 1 ppp</td>
<td>14 to 20 weeks (varies seasonally), 1 to 2 ppp</td>
<td>16 to 22 weeks (varies seasonally), 1 to 2 ppp</td>
</tr>
<tr>
<td>B-Nine 2.500 PPM (S), Bonzi 2-5 PPM (S); PGRs are optional.</td>
<td>Spider Mites, Rust, Fusarium</td>
<td>Pinch when bud is visible and side shoots start to develop. Cool temperatures and high light levels will improve plant quality.</td>
<td>14 to 20 weeks (varies seasonally), 1 ppp</td>
<td>16 to 22 weeks (varies seasonally), 2 ppp</td>
<td>16 to 22 weeks (varies seasonally), 4 to 5 ppp</td>
</tr>
<tr>
<td>B-Nine 2.500 PPM (S), Sumagic 3-5 PPM (S)/ Sumagic 0.25 PPM (D)</td>
<td>Aphids, Pythium</td>
<td>Cool temperatures and high light levels will improve plant quality.</td>
<td>5 to 7 weeks, 1 ppp</td>
<td>7 to 9 weeks, 1 to 2 ppp</td>
<td>8 to 10 weeks, 4 to 5 ppp</td>
</tr>
<tr>
<td>B-Nine (S) 2.500 PPM, Cyco (S) 750 PPM tank mix 7-10 days after transplant. Do not use Florel</td>
<td>White Fly, Aphids, Thrips, Botrytis, Pythium</td>
<td>Pinch for a better habit, especially in larger containers.</td>
<td>5 to 7 weeks, 1 ppp</td>
<td>6 to 9 weeks, 1 to 3 ppp</td>
<td>9 to 11 weeks, 3 to 5 ppp</td>
</tr>
<tr>
<td>B-Nine 2.500 PPM (S), Sumagic 15-20 PPM (S)/ Bonzi 30-40 PPM (S)</td>
<td>White Fly, Aphids, Root Rot, Botrytis</td>
<td>Avoid stretch; pinch early for better plant development.</td>
<td>7 to 9 weeks, 1 ppp</td>
<td>9 to 12 weeks, 1 to 2 ppp</td>
<td>10 to 13 weeks, 3 to 4 ppp</td>
</tr>
<tr>
<td>Cyco (S) at 500-1,000 PPM, use a light spray to glisten.</td>
<td>Aphids, Spider Mites, Thrips, Botrytis, Pythium</td>
<td>Maintain temperature and grow the crop on the dry side, but avoid drying out, as this will slow growth (plants will push flowers). Provide excellent air circulation.</td>
<td>6 to 7 weeks, 1 ppp</td>
<td>7 to 8 weeks, 1 ppp</td>
<td>10 to 12 weeks, 3 ppp</td>
</tr>
<tr>
<td>Cyco 750-1,000 PPM + B-Nine 1,500-2,500 PPM tank mix (S), Bonzi 2-5 PPM (S)/ Cyco 750-1,500 PPM (D)</td>
<td>Thrips, Fungus Gnats, Spider Mites, Rust, Botrytis, Pythium</td>
<td>Increase temperature and grow the crop on the dry side, but avoid drying out, as this will slow growth (plants will push flowers). Provide excellent air circulation.</td>
<td>8 to 10 weeks, 1 ppp</td>
<td>10 to 12 weeks, 1 ppp</td>
<td>10 to 14 weeks, 3 to 4 ppp</td>
</tr>
<tr>
<td>Use Cyco (S) at a rate of 500-1,000 PPM as needed.</td>
<td>Water in mornings only to prevent oedema.</td>
<td></td>
<td>6 to 8 weeks, 1 ppp</td>
<td>8 to 10 weeks, 1 ppp</td>
<td>12 to 16 weeks, 3 ppp</td>
</tr>
<tr>
<td>Cyco 750-1,000 PPM + B-Nine 1,500-2,500 PPM tank mix (S), Sumagic 1-3 PPM (S), Bonzi 2-5 PPM (S)</td>
<td>Thrips, Fungus Gnats, Spider Mites, White Fly, Rust, Botrytis, Pythium</td>
<td>Maintain temperature and grow the crop on the dry side, but avoid drying out, as this will slow growth (plants will push flowers). Provide excellent air circulation.</td>
<td>8 to 12 weeks, 1 ppp</td>
<td>12 to 14 weeks, 1 ppp</td>
<td>12 to 14 weeks, 3 to 4 ppp</td>
</tr>
<tr>
<td>Cyco 700-1,500 PPM (S)</td>
<td>Botrytis, Pythium,Ralstonia, Xanthomonas, Mites, Worms/Caterpillars</td>
<td>An easy-to-root vine that can grow aggressively if fed and watered well.</td>
<td>7 to 10 weeks, 1 ppp</td>
<td>8 to 12 weeks, 1 ppp</td>
<td>10 to 14 weeks, 1 to 3 ppp</td>
</tr>
<tr>
<td>B-Nine 1,500 PPM (S)</td>
<td>Caterpillars, Aphids, Pythium</td>
<td>Keep moderate feed and water levels to maintain good growth and silver foliage.</td>
<td>8 to 12 weeks, 1 ppp</td>
<td>10 to 14 weeks (varies seasonally), 3 ppp</td>
<td>12 to 16 weeks (varies seasonally), 3 to 5 ppp</td>
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* Temperature needs day/night: During rooting, keep soil temperature measured in the liner at 70°F/21°C until cuttings are well-rooted. After planting the liner, keep temperature up until roots have developed nicely. Afterwards, follow recommendations. The use of “Cool Morning” treatments will improve plant quality, flower and foliage color, and plant habit, and harden the plants. Lower the temperature by 8-10°F/4-6°C 2 hours before sunrise until 2-3 hours after sunrise. Start treatments after plants are rooted in, well-branched and cover the media (reach the pot edges). To avoid delayed flowering, keep the average day temperature under a close watch and if necessary, increase night temperatures. Finishing of the crop depends on the average day temperature, and positive or negative DIF methods as well as “Cool Morning” can be used to improve plant quality.
# Finishing Guide

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<td>Heliotrope</td>
<td>Heliotropium arborescens</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>keep constantly moist</td>
<td>70-75°F/55-60°F 21-24°C/13-16°C</td>
<td>no</td>
<td>5,000 to 9,000</td>
</tr>
<tr>
<td>Impatiens</td>
<td>Impatiens hawkeri</td>
<td>6.2-6.5</td>
<td>100-150 PPM N/EC 1.4-1.8</td>
<td>grow on the dry side</td>
<td>68-79°F/55-64°F 20-26°C/13-18°C</td>
<td>no</td>
<td>4,000 to 9,000</td>
</tr>
<tr>
<td>Impatiens</td>
<td>Impatiens hawkeri</td>
<td>5.8-6.2</td>
<td>100-150 PPM N/EC 1.4-1.8</td>
<td>keep constantly moist</td>
<td>70-78°F/65-68°F 21-26°C/18-20°C</td>
<td>recommended for larger containers</td>
<td>3,000 to 5,000</td>
</tr>
<tr>
<td>Impatiens</td>
<td>Impatiens hawkeri</td>
<td>5.8-6.2</td>
<td>100-150 PPM N/EC 1.4-1.8</td>
<td>keep constantly moist</td>
<td>70-78°F/65-68°F 21-26°C/18-20°C</td>
<td>no</td>
<td>3,000 to 5,000</td>
</tr>
<tr>
<td>Kalanchoe</td>
<td>Kalanchoe blossfeldiana</td>
<td>5.5-6.2</td>
<td>100-150 PPM N balanced feed</td>
<td>maintain moderate moisture</td>
<td>68-75°F/62-68°F 20-24°C/17-20°C</td>
<td>optional</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td>Lavandula</td>
<td>Lavandula angustifolia</td>
<td>5.8-6.2</td>
<td>100-150 PPM N constant feed</td>
<td>moderate</td>
<td>50-90°F/38-68°F 15-32°C/3-20°C</td>
<td>yes</td>
<td>5,000 to 7,000</td>
</tr>
<tr>
<td>Lavender</td>
<td>Lavandula stoechas</td>
<td>5.8-6.2</td>
<td>150-200 PPM N</td>
<td>grow on the dry side</td>
<td>60-75°F/38-60°F 15-23°C/3-15°C</td>
<td>yes</td>
<td>5,000 to 9,000</td>
</tr>
<tr>
<td>Lobella</td>
<td>Lobelia cultivars</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>grow on the dry side</td>
<td>65-77°F/50-65°F 18-25°C/10-18°C</td>
<td>yes</td>
<td>3,000 to 6,000</td>
</tr>
<tr>
<td>Lobella</td>
<td>Lobelia cultivars</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>grow on the dry side</td>
<td>70-75°F/55-60°F 21-24°C/13-16°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td>Lobularia</td>
<td>Lobularia maritima</td>
<td>5.8-6.2</td>
<td>150-200 PPM N constant feed</td>
<td>moderate</td>
<td>60-85°F/50-65°F 16-29°C/15-18°C</td>
<td>no</td>
<td>5,000 to 7,000</td>
</tr>
<tr>
<td>Lysimachia</td>
<td>Lysimachia nummularia</td>
<td>5.5-6.2</td>
<td>200 PPM N</td>
<td>moderate</td>
<td>50-85°F/36-70°F 10-29°C/2-21°C</td>
<td>optional</td>
<td>1,500 to 6,000</td>
</tr>
<tr>
<td>Mandevilla</td>
<td>Mandevilla sanderi</td>
<td>5.6-6.2</td>
<td>150-200 PPM N constant balanced feed</td>
<td>moderate</td>
<td>75-95°F/60-75°F 24-35°C/16-24°C</td>
<td>no</td>
<td>5,000 to 7,000</td>
</tr>
<tr>
<td>Muehlenbeckia</td>
<td>Muehlenbeckia complexa</td>
<td>5.8-6.5</td>
<td>100-150 PPM N/EC 1.4-1.8</td>
<td>grow on the dry side</td>
<td>65-70°F/50-55°F 18-21°C/10-13°C</td>
<td>optional</td>
<td>5,000 to 6,000</td>
</tr>
</tbody>
</table>

### Notes:
- **Media pH**: Best results are achieved if media with the correct pH is used starting with propagation.
- **Fertilizer needs**: Start with low concentrations after roots show and increase with plant development to the recommended levels.
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<th>10 to 12-inch (25 to 30-cm) Tub or Baskets</th>
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<tbody>
<tr>
<td>B-Nine 2,500 PPM (S), Cycoel 1,000 PPM + B-Nine 2,500 PPM tank mix (S)</td>
<td>White Fly, Spider Mites, Botrytis, Pythium</td>
<td>Start warm. After side shoots have developed, cool temperatures and high light levels will improve plant quality.</td>
<td>5 to 7 weeks, 1 ppp</td>
<td>7 to 9 weeks, 1 to 2 ppp</td>
<td>8 to 10 weeks, 3 to 5 ppp</td>
</tr>
<tr>
<td>B-Nine 1,500 PPM (S)</td>
<td>Thrips, Aphids, Mites, INSV, Botrytis, Pythium</td>
<td>Don’t overwater or overfeed. Keep pH above 6 to avoid iron/manganese toxicity.</td>
<td>6 to 8 weeks, 1 ppp</td>
<td>8 to 10 weeks, 1 ppp</td>
<td>10 to 13 weeks, 3 to 4 ppp</td>
</tr>
<tr>
<td>Bonzi 2-5 PPM (S)</td>
<td>Thrips, Aphids, Spider Mites, Botrytis, Pythium</td>
<td>Maintain temperature. For flower development, grow the crop on the dry side, but avoid drying out, as this will reduce flower performance. Avoid high salt levels.</td>
<td>6 to 7 weeks, 1 ppp</td>
<td>8 to 9 weeks, 1 to 2 ppp</td>
<td>9 to 12 weeks, 4 to 5 ppp</td>
</tr>
<tr>
<td>none</td>
<td>Aphids, Spider Mites, Thrips, Pythium, Botrytis</td>
<td></td>
<td>4 to 6 weeks, 1 ppp</td>
<td>6 to 8 weeks, 1 to 2 ppp</td>
<td>8 to 12 weeks, 4 to 5 ppp</td>
</tr>
<tr>
<td>B-Nine 2,500 PPM (S), B-Nine 1,500 PPM/ Cycoel 500 PPM (S)</td>
<td>Aphids, Mealybugs, Powdery Mildew, Phytophthora, Pythium</td>
<td>PGRs are necessary to strengthen the flower stems.</td>
<td>14 weeks, 1 ppp</td>
<td>16 weeks, 1 ppp</td>
<td>8-in. tabletop/ bowl/combos: 18 weeks, 3 ppp</td>
</tr>
<tr>
<td>not recommended</td>
<td>Spider Mites, Fusarium</td>
<td></td>
<td>14 to 16 weeks, 1 ppp</td>
<td>16 to 20 weeks, 1 to 2 ppp</td>
<td></td>
</tr>
<tr>
<td>none</td>
<td>Rosemary Beetle, Pythium, Rhizoctonia</td>
<td>Grow cool and on the dry side.</td>
<td>8 to 10 weeks, 1 ppp</td>
<td>10 to 12 weeks, 1 to 2 ppp</td>
<td>10 to 13 weeks, 3 to 4 ppp</td>
</tr>
<tr>
<td>B-Nine 2,500 PPM (S), Bonzi 2 PPM (D)</td>
<td>Thrips, Aphids, Spider Mites, Botrytis, Pythium, Rhizoctonia</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-Nine 1,500-2,500 PPM (S), Sumagic 3-5 PPM (S)/ Sumagic 0.25 PPM (D)</td>
<td>Thrips, Aphids, Spider Mites, Botrytis, Pythium, Rhizoctonia</td>
<td>Pinch as needed for improved plant habit. Let media dry out between watering.</td>
<td>6 to 8 weeks, 1 ppp</td>
<td>8 to 10 weeks, 1 to 2 ppp</td>
<td>8 to 10 weeks, 4 to 5 ppp</td>
</tr>
<tr>
<td>not recommended</td>
<td>Pythium, Spider Mites</td>
<td></td>
<td>5 to 6 weeks, 1 ppp</td>
<td>6 to 7 weeks, 1 ppp</td>
<td>10 to 12 weeks, 3 ppp</td>
</tr>
<tr>
<td>none</td>
<td>Very easy to grow.</td>
<td></td>
<td>5 to 7 weeks, 1 ppp</td>
<td>6 to 9 weeks, 3 ppp</td>
<td></td>
</tr>
<tr>
<td>not recommended</td>
<td>Spider Mites, Pythium</td>
<td></td>
<td>10 to 12 weeks, 1 ppp, staked</td>
<td>12 to 16 weeks, 2 to 3 ppp, trellised</td>
<td>14 to 18 weeks, 3 to 5 ppp, trellised</td>
</tr>
<tr>
<td>none</td>
<td>Mites</td>
<td></td>
<td>8 to 10 weeks (varies seasonally), 1 ppp</td>
<td>10 to 12 weeks (varies seasonally), 1 to 3 ppp</td>
<td>12 to 14 weeks (varies seasonally), 3 to 5 ppp</td>
</tr>
</tbody>
</table>

* Temperature needs day/night: During rooting, keep soil temperature measured in the liner at 70°F/21°C until cuttings are well-rooted. After planting the liner, keep temperature up until roots have developed nicely. Afterward, follow recommendations. The use of “Cool Morning” treatments will improve plant quality, flower and foliage color, and plant habit, and harden the plants. Lower the temperature by 8-10°F/4-6°C 2 hours before sunrise until 2-3 hours after sunrise. Start treatments after plants are rooted in, well-branched and cover the media (reach the pot edges). To avoid delayed flowering, keep the average day temperature under a close watch and if necessary, increase night temperatures. Finishing of the crop depends on the average day temperature, and positive or negative DIF methods as well as “Cool Morning” can be used to improve plant quality.
# Finishing Guide

## Rooting & Finishing

<table>
<thead>
<tr>
<th>Crop</th>
<th>Series/Variety</th>
<th>Media pH</th>
<th>Fertilizer Needs</th>
<th>Watering</th>
<th>Temperature Needs Day / Night</th>
<th>Pinch after Transplant (unpinched liners)</th>
<th>Light Levels in Foot Candles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Osteospermum</td>
<td>4D™</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>dry regularly between waterings</td>
<td>59-76°F/15-24°C 13-23°C</td>
<td>recommended</td>
<td>5,000 to 9,000</td>
</tr>
<tr>
<td>Osteospermum</td>
<td>Daisy Falls™</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>dry regularly between waterings</td>
<td>50-75°F/15-24°C 10-16°C</td>
<td>optional</td>
<td>5,000 to 8,000</td>
</tr>
<tr>
<td>Osteospermum</td>
<td>FlowerPower™ Compact, FlowerPower™ Spider, Zion™</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>dry regularly between waterings</td>
<td>60-65°F/15-18°C 13-21°C</td>
<td>recommended</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td>Pericallis</td>
<td>Senetti™</td>
<td>5.5-6.0</td>
<td>medium 260 PPM</td>
<td>light</td>
<td>70-75°F/21-24°C 10-13°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td>Petunia</td>
<td>Petunia cultivars</td>
<td>5.4-5.8</td>
<td>250-300 PPM N/EC 2.0-2.4</td>
<td>keep constantly moist</td>
<td>65-75°F/18-24°C 10-16°C</td>
<td>recommended</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td>Petunia</td>
<td>Main Stage™</td>
<td>5.8-6.2</td>
<td>250-300 PPM N/EC 2.0-2.4</td>
<td>keep moist</td>
<td>65-75°F/18-24°C 15-16°C</td>
<td>yes</td>
<td>5,000 to 8,000</td>
</tr>
<tr>
<td>Petunia</td>
<td>Petunia cultivars</td>
<td>5.4-5.8</td>
<td>250-300 PPM N/EC 2.0-2.4</td>
<td>keep constantly moist</td>
<td>65-75°F/18-24°C 15-16°C</td>
<td>recommended</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td>Phlox</td>
<td>Gisele™</td>
<td>5.8-6.2</td>
<td>150-200 PPM N</td>
<td>avoid overwatering</td>
<td>65-80°F/18-27°C 15-18°C</td>
<td>recommended</td>
<td>3,000 to 9,000</td>
</tr>
<tr>
<td>Portulaca</td>
<td>PortoGrande™</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>grow on the dry side</td>
<td>65-75°F/18-24°C 16-18°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td>Salvia</td>
<td>Skyscraper™</td>
<td>5.8-6.2</td>
<td>moderate</td>
<td>moderate</td>
<td>65-77°F/18-25°C 13-18°C</td>
<td>yes</td>
<td>4,000 to 7,000</td>
</tr>
<tr>
<td>Sanvitalia</td>
<td>Tsavo™</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>grow on the dry side</td>
<td>70-75°F/21-24°C 13-16°C</td>
<td>yes</td>
<td>4,000 to 5,000</td>
</tr>
</tbody>
</table>

* Media pH: Best results are achieved if media with the correct pH is used starting with propagation.

* Fertilizer needs: Start with low concentrations after roots show and increase with plant development to the recommended levels.

* Watering: In general, avoid drying out or overwatering the substrate as this will affect plant quality and finishing time. Root system will suffer when conditions change from one extreme to the other. “Growing on the dry side” means letting the substrate become dry before watering. “Keep constantly moist” means watering the plants just before substrate becomes dry. Water management in rooting and finishing is half the success and the best way to prevent root-bound diseases, improve performance and control plant quality.
### Plant Growth Regulators (PGR)

- **(S) = Spray** / **(D) = Drench**

### Pests and Fungal Diseases

- Thrips, White Fly, Aphids, Botrytis, Pythium, Rhizoctonia
- Aphids, Thrips, Botrytis, Pythium
- Aphids, Fungus Gnats, Slugs, Botrytis, Pythium
- Mites

### Comments

- It is recommended to NOT use B-Nine on 4D osteos, as it may have a negative effect on the expression of double flowers.
- Pinch after plants have rooted into the media and are well-developed, but avoid stretch. Cool temperatures and high light levels will improve plant quality.
- Avoid overwatering, avoid frost; shade in last three weeks of finishing may cause stretch.
- Cool temperatures and high light levels will improve plant quality. Watch Fe deficiency.
- Cool temperatures and high light levels will improve plant quality. Watch Fe deficiency.
- Avoid overwatering.
- Pinch as needed for improved plant habit. Let media dry out between watering.
- Start late Spring when day length increases and temperatures rise. High light and warm temperatures will improve flowering, branching and plant development.

### Crop Time from Rooted Cutting/Plants Per Pot (PPP)

<table>
<thead>
<tr>
<th>Plant Growth Regulators (PGR)</th>
</tr>
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<tbody>
<tr>
<td><strong>(S) = Spray / (D) = Drench</strong></td>
</tr>
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</table>

### Series/Variety

- Cyecocel 750-1,500 PPM (S), Cyecocel 750-1,500 PPM (D), Sumagic 5-10 PPM (S) / Sumagic 0.5-1 PPM (D) - 9 to 12 weeks, 1 ppp
- Cyecocel 1,000 PPM + B-Nine 2,500 PPM tank mix (S), Sumagic 5-10 PPM (S) / Cyecocel 750-1,500 PPM (D), Sumagic 0.5-1 PPM (D), Bonzi 0.5-3 PPM (D) - 9 to 12 weeks, 1 ppp
- B-Nine, 2,000 PPM (S) every 14 days - 10 to 20 weeks, 1 ppp
- B-Nine 2,500 PPM (S), Sumagic 20-30 PPM (S) / Sumagic 0.5 PPM (D), Bonzi 2-4 PPM (D) - 6 to 7 weeks, 1 ppp
- B-Nine 2,500-3,000 PPM (S), Bonzi 2-4 PPM (D) - 4 to 6 weeks, 1 ppp
- B-Nine 2,500 PPM (S), Sumagic 20-30 PPM (S) / Sumagic 0.5 PPM (D), Bonzi 2-4 PPM (D) - 6 to 7 weeks, 1 ppp
- B-Nine 1,500-2,000 PPM (S) - 5 to 6 weeks, 1 ppp
- generally not needed - keep dry to control vigor - 6 to 8 weeks, 1 ppp
- B-Nine 2,500 PPM (S) - 4 to 5 weeks, 1 ppp
- B-Nine 2,500 PPM (S), Sumagic 2-5 PPM (S) - 6 to 7 weeks, 1 ppp

### Notes

- **Temperature needs day/night:** During rooting, keep soil temperature measured in the liner at 70°F/21°C until cuttings are well-rooted. After planting the liner, keep temperature up until roots have developed nicely. Afterward, follow recommendations. The use of “Cool Morning” treatments will improve plant quality, flower and foliage color, and plant habit, and harden the plants. Lower the temperature by 8-12°F/4-6°C 2 hours before sunrise until 2-3 hours after sunrise. Start treatments after plants are rooted in, well-branched and cover the media (reach the pot edges). To avoid delayed flowering, keep the average day temperature under a close watch and if necessary, increase night temperatures. Finishing of the crop depends on the average day temperature, and positive or negative DIF methods as well as “Cool Morning” can be used to improve plant quality.

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**FINISHING GUIDE 151**
## Finishing Guide

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<tr>
<th>Crop</th>
<th>Series/Variety</th>
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<th>Fertilizer Needs</th>
<th>Watering</th>
<th>Temperature Needs Day / Night</th>
<th>Pinch after Transplant</th>
<th>Light Levels in Foot Candles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scaevola</td>
<td>Fairy™ Scaevola aemula</td>
<td>5.4-5.8</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>grow on the dry side</td>
<td>68-78°F/20-26°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td>Sedum</td>
<td>Gold Mound Sedum mexicanum</td>
<td>5.8-6.5</td>
<td>100-150 PPM N/EC 1.4-1.8</td>
<td>grow on the dry side</td>
<td>65-70°F/18-21°C</td>
<td>optional</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td>Trixi</td>
<td>Trixi recipes</td>
<td>5.4-5.8</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>keep constantly moist</td>
<td>70-75°F/21-24°C</td>
<td>a second pinch is recommended</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td>Verbenas</td>
<td>Beats™ Verbenas cultivars</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>grow on the dry side</td>
<td>65-75°F/18-24°C</td>
<td>optional</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td>Verbenas</td>
<td>BeBop™ Verbenas cultivars</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>grow on the dry side</td>
<td>65-75°F/18-24°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td>Verbenas</td>
<td>Blues™ Verbenas cultivars</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>grow on the dry side</td>
<td>65-75°F/18-24°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td>Verbenas</td>
<td>Lascar™ Verbenas cultivars</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>grow on the dry side</td>
<td>65-75°F/18-24°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
</tbody>
</table>

### Notes:

**Media pH:** Best results are achieved if media with the correct pH is used starting with propagation.

**Fertilizer needs:** Start with low concentrations after roots show and increase with plant development to the recommended levels.

**Watering:** In general, avoid drying out or overwatering the substrate as this will affect plant quality and finishing time. Root system will suffer when conditions change from one extreme to the other. "Growing on the dry side" means letting the substrate become dry (substrate color turns light brown and substrate starts to separate from the pot edge) before watering. "Keep constantly moist" means watering the plants just before substrate becomes dry. Water management in rooting and finishing is half the success and the best way to prevent root-bound diseases, improve performance and control plant quality.
### Cultivars
- *Verbena*
  - **Trixi®**
- *Sedum*
  - *Sedum mexicanum*
- *Scaevola aemula*

### Crop Time from Rooted Cutting/Plants per Pot (PPP)

<table>
<thead>
<tr>
<th>Plant Growth Regulators (PGR)</th>
<th>Pests and Fungal Diseases</th>
<th>Comments</th>
<th>4 to 5-inch (10 to 15-cm) Pots, Quarts</th>
<th>6-inch (15-cm) Pots, Gallons</th>
<th>10 to 12-inch (25 to 30-cm) Tubs or Baskets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sumagic 5-10 PPM (S), Bonzi 10-20 PPM (S)/Bonzi 0.5-1 PPM (D)</td>
<td>Botrytis, Pythium, Phytophthora</td>
<td>Start late Spring when day length increases and temperatures rise. High light and warm temperatures will improve flowering, branching and plant development.</td>
<td>6 to 7 weeks, 1 ppm</td>
<td>8 to 10 weeks, 1 to 2 ppm</td>
<td>9 to 12 weeks, 4 to 5 ppm</td>
</tr>
<tr>
<td>none</td>
<td></td>
<td></td>
<td>8 to 10 weeks (varies seasonally), 1 ppm</td>
<td>10 to 12 weeks (varies seasonally), 1 to 3 ppm</td>
<td>12 to 14 weeks (varies seasonally), 3 to 5 ppm</td>
</tr>
<tr>
<td>Depends on the Mix. B-Nine 2,500-3,500 PPM (S), Sumagic 5-20 PPM (S)/Sumagic 0.25-0.50 PPM (D), Bonzi 2-4 PPM (D)</td>
<td>Depends on the Mix. See single crops for a list of possible problems.</td>
<td>Cool temperatures and high light levels will improve plant quality. Pinch as needed for improved plant habit. Watch for Fe deficiency.</td>
<td>5 to 6 weeks, 1 ppm</td>
<td>5 to 6 weeks, 1 to 2 ppm</td>
<td>8 to 10 weeks, 3 to 4 ppm</td>
</tr>
<tr>
<td>Very little or no PGR is necessary for Beats. If necessary, B-Nine 1,000 PPM/Cycoce 500 PPM works well.</td>
<td>Thrips, Aphids, Leafminer, Powdery Mildew</td>
<td>Due to its natural compact habit, use care to avoid overwatering.</td>
<td>5 to 6 weeks, 1 ppm</td>
<td>6 to 8 weeks, 3 ppm</td>
<td>7 to 9 weeks, 5 ppm</td>
</tr>
<tr>
<td>B-Nine 1,500-2,500 PPM (S), Sumagic 5-10 PPM (S), Cycoce 1,000-2,000 PPM (S)</td>
<td>Thrips, Aphids, White Fly, Leafminer, Powdery Mildew</td>
<td>Let media dry out between watering. Avoid stretch, and pinch as needed to improve plant habit.</td>
<td>5 to 7 weeks, 1 ppm</td>
<td>6 to 9 weeks, 1 ppm</td>
<td>9 to 11 weeks, 3 to 5 ppm</td>
</tr>
<tr>
<td>B-Nine 1,500-2,500 PPM (S), Sumagic 5-10 PPM (S), Cycoce 1,000-2,000 PPM (S)</td>
<td>Thrips, Aphids, White Fly, Leafminer, Powdery Mildew</td>
<td>Let media dry out between watering. Avoid stretch, and pinch as needed to improve plant habit.</td>
<td>6 to 7 weeks, 1 ppm</td>
<td>7 to 9 weeks, 1 ppm</td>
<td>8 to 10 weeks, 3 to 4 ppm</td>
</tr>
<tr>
<td>B-Nine 1,500-2,500 PPM (S), Sumagic 5-10 PPM (S), Cycoce 1,000-2,000 PPM (S)</td>
<td>Thrips, Aphids, White Fly, Leafminer, Powdery Mildew</td>
<td>Let media dry out between watering. Avoid stretch, and pinch as needed to improve plant habit.</td>
<td>6 to 7 weeks, 1 ppm</td>
<td>7 to 9 weeks, 1 ppm</td>
<td>8 to 10 weeks, 3 to 4 ppm</td>
</tr>
</tbody>
</table>

### Fertilizer Needs
- *Cycocel 1,000-2,000 PPM (S)*
- *Sumagic 5-10 PPM (S), B-Nine 1,500-2,500 PPM (S)*
- *Bonzi 2-4 PPM (D)*

### Finishing of the Crop
- Finishing of the crop depends on the average day temperature, and positive or negative DIF methods as well as “Cool Morning” can be used to improve plant quality.

### Rooting & Finishing
- **2 N/EC 1.8-2.0**
  - grow on the dry side
  - keep moist constantly
- **3 N/EC 1.8-2.0**
  - grow on the dry side
  - grow on the dry side
  - keep moist constantly
- **4 N/EC 1.8-2.0**
  - grow on the dry side
  - keep moist constantly
- **5 N/EC 1.4-1.8**
  - grow on the dry side
  - keep moist constantly

### Comments
- **Temperature needs day/night:** During rooting, keep soil temperature measured in the liner at 70°F/21°C until cuttings are well-rooted. After planting the liner, keep temperature up until roots have developed nicely. Afterward, follow recommendations. The use of “Cool Morning” treatments will improve plant quality, flower and foliage color, and plant habit, and harden the plants. Lower the temperature by 8-12°F/4-6°C 2 hours before sunrise until 2-3 hours after sunrise. Start treatments after plants are rooted in, well-branched and cover the media (reach the pot edges). To avoid delayed flowering, keep the average day temperature under a close watch and if necessary, increase night temperatures. Finishing of the crop depends on the average day temperature, and positive or negative DIF methods as well as “Cool Morning” can be used to improve plant quality.

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Fax (716) 649-6347

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Fax (805) 431-2192

DGI Propagators
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Hudsonville, MI 49426
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Fax (616) 669-2557

Dickman Farms
13 Archie Street
Auburn, NY 13021
Phone (315) 253-3030
Fax (315) 253-3377

DS Cole Growers
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Fax (603) 783-9562

Esbenshade’s Greenhouses, Inc.
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Phone (717) 626-7000
Fax (717) 626-7302

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NE Woodburn, OR 97071
Phone (503) 634-2448
Fax (503) 634-2866

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Lancaster, PA 17602
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Fax (717) 399-7162

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Fax (856) 681-2502

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Phone (616) 784-0583
Fax (616) 784-3136

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Millstadt, IL 62260
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Fax (517) 542-2565

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Fax (360) 366-3911

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