For the best qualities of petunias and calibrachoas —

**NEW EnViva™** makes its debut as a series of large, colorful flowers dressed to impress in landscapes. They offer excellent cold/hot/rainy weather performance.

---

For striking ingenuity in breeding —

**NEW SweetSunshine™ Magenta Sky Double** is the FIRST Sky pattern in a double petunia! These durable, fully double blooms stand up to tough weather, with a semi-trailing habit that is ideal for hanging baskets.

---

For early-Spring premium options —

**NEW MiniFamous® Uno Pink Radiance** displays gorgeous blooms that can hit the market early! This uniform series flowers early and continues to grow. Expect it to play a starring role in mixed containers and hanging baskets.
NOW LANDING

Your Proven Dianthus Supply Chain

We are the **ONLY USDA-approved** breeding company supplying you with 14 varieties of dianthus cuttings from offshore production into the U.S.

**Here’s your opportunity to:**
- Receive any quantity you need, all in one shipment.
- Offer your customers plants for every occasion.
- Keep your costs down and your profits up.
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Terminology

24 Upgraded Variety
Varieties noted as 24 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.

Key

<table>
<thead>
<tr>
<th>Vigor</th>
<th>Flowering Time</th>
<th>Heat Tolerance</th>
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<tbody>
<tr>
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<td>A excellent</td>
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<td>2 low-medium</td>
<td>early</td>
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<td>standard</td>
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Heat up early Spring sales!

After a dreary Winter indoors, consumers are excited to get outside and plant! Cash in early with our premium varieties that:

• Command higher retail prices.
• Fit into your early shoulder season for performance.
• Boost profits with efficient, low-energy growing.
• Grab attention with colorful flowers at retail!

We recommend early-season stars, like bacopa (pg 29), calceolaria (pg 118), dianthus (pg 105), ersysimum (pg 38), nemesia (pg 74) and osteospermum (pg 75).
Bringing Quality Liners to You
You’ll save time and labor when you order rooted liners from Selecta One®.

Trialed and Approved
Selecta One plants are trialed and approved at trial sites throughout North America. This strategy ensures the plants we recommend for your region will provide the excellent performance you expect.

Our expansive rooted liner network covers several regions, assuring you of a Root and Sell location, providing our innovative genetics, near you.

Consistent Quality and Delivery
We use local truck shipments to deliver your order to you quickly, on time and in full. We’ll even deliver right to your door.

Thanks to our dependable high order fill rate and consistent quality, you can rely on us to keep you on track and growing sooner this – and every – season.

View additional product form information on page 132.
Introducing NEW Dynamix™ Combination Inspiration!

Enhance your combination program with fresh ideas from Selecta One! These high-impact recipes feature ideal blends for every season, reason, size and style. Along with our pre-mixed Trixi® program, Selecta One has everything you need to create combinations that stun at retail!

Watch for Dynamix combo ideas throughout this catalog!
GET CREATIVE!

Trixi® Combos
Ordered as 100% complete multi-stuck liners

Dynamix™ Recipes
Order individual components and build them yourself

• Designed for growers at all levels
• Flexibility to build the combinations yourself rather than ordering as a kit
• Proven to perform well at retail and for the end consumer

What’s your DIY mix?

1. Get started at selectanorthamerica.com/Dynamix and explore combinations based on exposure, seasonality, timing and color.
2. Order your components individually as liners or cuttings.
3. To plant, follow our easy “plantograms” found on the Dynamix web page.
Trixie® Combos at a Glance

Our pre-mixed Trixi combos have been trialed and proven for their excellent performance. They are the best mixes of rooting stations nationwide. Ordered as 100% complete multi-stuck liner kits, your favorite Trixi mixes are available in a range of color combinations and classes.

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NEW indicates a new product.
NEW Independence Day

NEW Delight Up My Life
VERY EARLY
MiniFamous® Uno Double White Calibrachoa
MiniFamous® Uno White Gold Calibrachoa
Tsavo™ Compact Yellow Sanvitalia
Ø 2 Ø 1 Ø B

NEW Independence Day
SUN LOVER | EARLY
NEW EnViva™ Blue Petchoa
NEW EnViva™ Red Petchoa
NEW EnViva™ White Petchoa
Ø 3 Ø 2 Ø A

NEW Red & White Forever
SUN LOVER | EARLY
NEW EnViva™ Red Petchoa
NEW EnViva™ White Petchoa
Ø 3 Ø 2 Ø A

NEW Romance in Bloom
EARLY
MiniFamous® Neo Salmon Pink+Eye Calibrachoa
Headliner™ Strawberry Sky Petunia
Blues™ Red Verbena
Ø 3 Ø 2 Ø B
NEW Sunshiny Day
EARLY
MiniFamous® Uno White Gold Calibrachoa
MiniFamous® Uno Yellow+Red Vein Calibrachoa
Lascar™ Orange Lava Verbena
2 2 B

NEW Tight Ship
SUN LOVER | VERY EARLY
Tsavo™ Compact Yellow Sanvitalia
Gisele® Red Phlox
2 1 A

NEW Whimsical Wonder
VERY EARLY
NEW Whimsy™ Deep Rose Nemesia
NEW Whimsy™ Red Nemesia
NEW Whimsy™ Yellow Nemesia
2 1 C

Available as rooted cuttings from our suppliers, see back cover.
Popular Demand

**VERY EARLY**

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

4 1 B

Daisy Falls

**VERY EARLY**

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

4 1 B

Daisy Dance

**VERY EARLY**

- MiniFamous® Neo Orange+Red Eye Calibrachoa
- Daisy Falls™ Purple Osteospermum
- Lascar™ Mango Orange Verbena

4 1 B

Enchanted Evening

**EARLY**

- MiniFamous® Uno White Calibrachoa
- Headliner™ Enchanted Sky Petunia
- Blues™ Purple+Eye Verbena

2 2 B
Out of the Blue

**VERY EARLY**

Namid™ Early Yellow Bidens
Magadi™ Dark Blue Lobelia
Lascar™ White Verbena

Very Early


Written in the Stars

**EARLY**

MiniFamous® Neo Deep Yellow Calibrachoa
MiniFamous® Uno Violet Star Calibrachoa

Very Early


Flirtini

**EARLY**

MiniFamous® Neo Double Amethyst Calibrachoa
MiniFamous® Neo Double Lemon Calibrachoa
MiniFamous® Uno Double Light Pink Calibrachoa

Very Early


SelectaNorthAmerica.com or 800 879-2255
**Bolero**

**EARLY**

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

**Cajun Flare**

**VERY EARLY**

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

**Night Watch**

**EARLY**

- Namid™ Special Yellow Bidens
- Starlet™ Velvet Petunia
- Blues™ Red Verbena
Crazy for Crayons

**VERY EARLY**

- Namid™ Early Yellow Bidens
- MiniFamous® Neo Dark Blue Calibrachoa
- Lascar™ Burgundy Verbena

La Bomba

**EARLY**

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

Pop the Bubbly

**EARLY**

- Namid™ Early Yellow Bidens
- Starlet™ Yellow Petunia
- Lascar™ White Verbena
**Double Date**

**EARLY**

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

**Gold & Bold**

**EARLY**

- MiniFamous® Neo Dark Blue Calibrachoa
- MiniFamous® Neo Deep Yellow Calibrachoa
- MiniFamous® Neo Purple Calibrachoa
Lollipop

EARLY

MiniFamous® Neo Blue Calibrachoa
MiniFamous® Neo Deep Yellow Calibrachoa
MiniFamous® Neo Pink Calibrachoa
☑️ 3 ☐️ 2 ☐️ B

Lip Sync

VERY EARLY

MiniFamous® Uno Yellow Calibrachoa
Magadi™ Dark Blue Lobelia
Headliner™ Lipstick Petunia
☑️ 4 ☐️ 1 ☐️ B

Charged Up Cherry!

EARLY

MiniFamous® Neo Double Lemon Calibrachoa
MiniFamous® Neo Pink Hawaii Calibrachoa
Blues™ Magenta+Eye Verbena
☑️ 2 ☐️ 2 ☐️ B
Who Knew Orleans

EARLY

MiniFamous® Uno Yellow+Red Vein Calibrachoa
Headliner™ Red Petunia
Lascar™ Mango Orange Verbena

Sunset

EARLY

MiniFamous® Neo Deep Orange Calibrachoa
MiniFamous® Neo Vampire Calibrachoa
MiniFamous® Uno Yellow Calibrachoa
**Double The Heat**

**VERY EARLY**

- MiniFamous® Neo Double OrangeTastic Calibrachoa
- MiniFamous® Uno Double Red Calibrachoa

\[\text{3} \quad \text{1} \quad \text{B}\]

---

**Batting Eyes**

**EARLY**

- MiniFamous® Neo Orange+Red Eye Calibrachoa
- MiniFamous® Neo Salmon Pink+Eye Calibrachoa
- MiniFamous® Uno Yellow+Red Vein Calibrachoa

\[\text{3} \quad \text{2} \quad \text{B}\]

---

**Caribbean Cocktail**

**EARLY**

- MiniFamous® Neo Blue Calibrachoa
- MiniFamous® Neo Orange+Red Eye Calibrachoa
- MiniFamous® Neo Vampire Calibrachoa

\[\text{3} \quad \text{3} \quad \text{2} \quad \text{B}\]
Can’t Be Beat 24
HIGH DENSITY | NO PINCH | VERY EARLY
NEW Beats™ Bright Purple Verbena
Beats™ Purple+White Verbena
Beats™ White Verbena

Geisha Girl
EARLY
MiniFamous® Neo Salmon Pink+Eye Calibrachoa
Headliner™ Red Petunia
Lascar™ Red Rose Verbena

Heartbeat
HIGH DENSITY | NO PINCH | VERY EARLY
Beats™ Red Verbena
Beats™ Red+White Verbena

Two to Tango
EARLY
MiniFamous® Neo Double Purple Calibrachoa
MiniFamous® Uno Double PinkTastic Calibrachoa
Strawberry Shortcake

VERY EARLY

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

Berry Daring

EARLY

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

Hotter than You Pink

EARLY

Headliner™ Lipstick Petunia
Headliner™ Pink Vein Petunia
Headliner™ White Petunia

You PiNKed My Interest

VERY EARLY

Gisele® Hot Pink Phlox
Gisele® Pink Phlox
Gisele® White Phlox
**Raspberry Sorbet**

**EARLY**

- MiniFamous® Neo White Calibrachoa
- Starlet™ Magenta Star Petunia
- Blues™ Magenta+Eye Verbena

**TOP SELLER**

**Cherry Kiss**

**EARLY**

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

**TOP SELLER**

**Twice As Nice**

**EARLY**

- MiniFamous® Neo Double Dark Blue Calibrachoa
- MiniFamous® Neo Double Purple Calibrachoa
- MiniFamous® Uno Double Red Calibrachoa

**Wild Berry**

**EARLY**

- MiniFamous® Neo Blue Calibrachoa
- MiniFamous® Neo Purple Calibrachoa
- MiniFamous® Neo White Calibrachoa
TRIXI® COMBOS
SelectaNorthAmerica.com or 800 879-2255

Double Take
VERY EARLY
MiniFamous® Uno Double Dark Blue Calibrachoa
MiniFamous® Uno Double PinkTastic Calibrachoa
MiniFamous® Uno Double Red Calibrachoa
Ψ 2 Ω 1 Ø B

Chemical Attraction
VERY EARLY
MiniFamous® Uno White Calibrachoa
Magadi™ Electric Purple Lobelia
Headliner™ Electric Purple Sky Petunia
Ψ 4 Ω 1 Ø C

Party Favor
EARLY
MiniFamous® Neo Blue Calibrachoa
MiniFamous® Neo Pink Calibrachoa
MiniFamous® Neo White Calibrachoa
Ψ 3 Ω 2 Ø B

Starspinner
EARLY
MiniFamous® Uno Pink Star Calibrachoa
MiniFamous® Uno Violet Star Calibrachoa
Ψ 2 Ω 2 Ø B
Blueberry Parfait 24
EARLY
NEW Big Falls™ Trixi White Bacopa
MiniFamous® Neo Light Blue Calibrachoa
Blues™ Light Pink+Eye Verbena
Ø 4 Ø 2 Ø B

Break the Ice
EARLY
MiniFamous® Neo Blue Calibrachoa
MiniFamous® Neo Double Silver Blue Calibrachoa
MiniFamous® Neo Violet Ice Calibrachoa
Ø 2 Ø 2 Ø B

Purple Lace
EARLY
MiniFamous® Neo Dark Blue Calibrachoa
MiniFamous® Neo Double PlumTastic Calibrachoa
Blues™ Lavender+Eye Verbena
Ø 2 Ø 2 Ø B

Sky’s the Limit
EARLY
Headliner™ Night Sky® Petunia
Headliner™ Sky Blue Petunia
Headliner™ White Petunia
Ø 4 Ø 2 Ø B
Purple with a Purpose

**EARLY**

- MiniFamous® Neo Dark Blue Calibrachoa
- MiniFamous® Neo Light Blue Calibrachoa
- MiniFamous® Neo White Calibrachoa

Purple with a Purpose: 3 2 B

Crystallize

**EARLY**

- Headliner™ Crystal Sky Petunia
- Headliner™ Night Sky® Petunia

Crystallize: 4 2 B

Starlight Starbright

**EARLY**

- MiniFamous® Neo Blue Calibrachoa
- Headliner™ Blackberry Vein Petunia
- Blues™ Lavender+Eye Verbena

Starlight Starbright: 3 2 B

On the Double

**VERY EARLY**

- MiniFamous® Neo Double PlumTastic Calibrachoa
- MiniFamous® Uno Double Dark Blue Calibrachoa

On the Double: 2 1 B
Old Glory

**EARLY**

MiniFamous® Neo Dark Blue Calibrachoa
MiniFamous® Neo Vampire Calibrachoa
MiniFamous® Neo White Calibrachoa

Walk on a Cloud

**EARLY**

Magadi™ Basket White Lobelia
Starlet™ White Petunia
Lascar™ White Verbena

Ball Game 24

**EARLY**

NEW Headliner™ Blue 24 Petunia
Headliner™ Red Petunia
Headliner™ White Petunia

TOP SELLER
**Liberty Bell**

**EARLY**

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

variants: 4 - 2 - A

**Star Spangled Glamour**

**VERY EARLY**

- MiniFamous® Uno Double Dark Blue Calibrachoa
- MiniFamous® Uno Double Red Calibrachoa
- MiniFamous® Uno Double White Calibrachoa

variants: 2 - 1 - B

---

**Little Liberty**

**HIGH DENSITY | NO PINCH | VERY EARLY**

- Beats™ Blue Verbena
- Beats™ Red Verbena
- Beats™ White Verbena

variants: 1 - 1 - B

**True North**

**VERY EARLY**

- MiniFamous® Uno Double Red Calibrachoa
- MiniFamous® Uno Double White Calibrachoa

variants: 2 - 1 - B
Culture Information for TrixiLiner®

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 plants, 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 TrixiLiners. 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: Moist ten 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 the 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 (-13 to -11°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 the 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 drainage 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 to correct 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 the 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.
### Key

<table>
<thead>
<tr>
<th>Vigor</th>
<th>Flowering Time</th>
<th>Heat Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>very early</td>
<td>A excellent</td>
</tr>
<tr>
<td>2</td>
<td>early</td>
<td>B very good</td>
</tr>
<tr>
<td>3</td>
<td>standard</td>
<td>C good</td>
</tr>
</tbody>
</table>

- **Vigor**: 1. low, 2. low-medium, 3. medium, 4. medium-high, 5. high
- **Flowering Time**: 1. very early, 2. early, 3. standard

### ANNUALS

**NEW MiniFamous® Uno**
Blue Star Calibrachoa
page 34
New Burgundy Glow
Ajuga
*Ajuga reptans*

**COMPACT VIGOR | SPREADING**
**HIGH DENSITY | SUN LOVER**

- Striking variegated leaves in shades of white, purple, rose and green
- Adds contrast with dark foliage in mixed containers
- Leaves change to deep bronze in the Fall
- Provides a spreading groundcover in a dark chocolate brown color

*Height*: 3 to 6 in. (8 to 15 cm)
*Spread*: 18 to 36 in. (46 to 91 cm)
*USDA Hardiness Zone*: 3a to 9b
*Ideal Pot Sizes*: Packs, Quarts
*Uses*: Pots, Combos, Landscapes

---

New Chocolate Chip
Ajuga
*Ajuga x tenorii*

**COMPACT VIGOR | SPREADING**
**HIGH DENSITY | SUN LOVER**

- Features miniature rounded leaves
- Attracts hummingbirds
- Excellent for small spaces, at garden’s edge or in rock gardens
- Disease resistant

*Height*: 4 in. (10 cm)
*Spread*: 6 to 9 in. (15 to 23 cm)
*USDA Hardiness Zone*: 3a to 9b
*Ideal Pot Sizes*: Packs, Quarts
*Uses*: Pots, Combos, Landscapes
Big Falls™ Bacopa
*Sutera grandiflora*

**COMPACT VIGOR | SEMI-TRAILING**
- Series improvements this year in all colors!
- Better branching
- Larger blooms
- Shorter crop time
- More controlled habit

**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

Big Falls Trixi White is our top pick for making mixes. The larger vigor ensures it won’t get overtaken by other components.

---

**Orange Lantern Begonia**
*Begonia boliviensis*

**MEDIUM VIGOR | SEMI-TRAILING**
- Upright, super-dense habit – won’t fall apart
- Compact for small pots and baskets
- Bright orange color against dark foliage
- Dependable supply chain

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

SelectaNorthAmerica.com or 800 879-2255
Mistral® Begonia

*Begonia boliviensis*

**MEDIUM VIGOR | SEMI-TRAILING | SUN LOVER**

- Excellent branching
- 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, Larger than Gallons
**Uses:** Baskets

---

Compact Double Apricot Begonia

*Begonia boliviensis*

**COMPACT VIGOR | MOUNDED | SUN LOVER**

- 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, Larger than Gallons
**Uses:** Pots, Baskets
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)

### Compact Yellow

**COMPACT VIGOR | MOUNDED | HIGH DENSITY**

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

**Uses:** Pots

### Early Yellow

**MEDIUM VIGOR | UPRIGHT**

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

**Uses:** Baskets, Combos

### Special Yellow

**LARGE VIGOR | SPREADING**

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

**Uses:** Baskets

### Red+Yellow Eye

**MEDIUM VIGOR | SEMI-TRAILING**

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

**Uses:** Pots, Baskets, Combos

---

**Compact Yellow** is the go-to Southern mix component! It won’t overgrow the other components. **Special Yellow** is ideal for mixing in the North. Its spreading habit with larger vigor can be controlled with minimal PGRs.

*Trixi La Bomba*

Featuring Namid Early Yellow
Mohave™ Bracteantha
*Bracteantha bracteata*

**MEDIUM VIGOR | MOUNDED**
**HIGH DENSITY | NO PINCH**

- Blooms from Spring to Fall
- Superior branching
- Big, brilliant flowers
- Try Basket Yellow in mixes!

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

---

**New**

**White 24**

- Yellow
- Basket Yellow
- Apricot
- Pink
- Purple Red

**Uses:** Pots, Baskets

---

**Mixed Container**

Featuring **Mohave** Yellow Bracteantha and **Lascar** Mango Orange Verbena

**Basket Yellow** is a surprising yellow element for mixes. Give it a try!
Calibrachoa

For classic, reliable core colors and vibrant, new, showstopping hues — unique, surprising patterns, and Selecta One-exclusive Tastic double bicolors — plus, early finishing and reliable uniformity for quarts, gallons and baskets — choose early, compact MiniFamous® Uno and medium-vigor MiniFamous® Neo.

COMPACT
Vigor
pages 34-35

NEW MiniFamous® Uno
Pink Radiance
page 34

MEDIUM
Vigor
pages 36-37

MiniFamous® Neo
Pink Hawaii
page 37
MiniFamous® Uno
Calibrachoa
*Calibrachoa hybrida*

**COMPACT VIGOR | MOUNDED | HIGH DENSITY**

- 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, Larger than Gallons
**Uses:** Pots, Baskets, Combos

- **Pink Radiance**
  - NEW
  - Height: 8 to 10 in. (20 to 25 cm)
  - Spread: 10 to 12 in. (25 to 30 cm)
  - Ideal Pot Sizes: Pack, Quart, Gallon, Larger than Gallon
  - Uses: Pots, Baskets, Combos

- **Rose+Eye**
  - Height: 8 to 10 in. (20 to 25 cm)
  - Spread: 10 to 12 in. (25 to 30 cm)
  - Ideal Pot Sizes: Pack, Quart, Gallon, Larger than Gallon
  - Uses: Pots, Baskets, Combos

- **Blue Star**
  - Height: 8 to 10 in. (20 to 25 cm)
  - Spread: 10 to 12 in. (25 to 30 cm)
  - Ideal Pot Sizes: Pack, Quart, Gallon, Larger than Gallon
  - Uses: Pots, Baskets, Combos

- **Double White**
  - Height: 8 to 10 in. (20 to 25 cm)
  - Spread: 10 to 12 in. (25 to 30 cm)
  - Ideal Pot Sizes: Pack, Quart, Gallon, Larger than Gallon
  - Uses: Pots, Baskets, Combos

- **White**
  - Height: 8 to 10 in. (20 to 25 cm)
  - Spread: 10 to 12 in. (25 to 30 cm)
  - Ideal Pot Sizes: Pack, Quart, Gallon, Larger than Gallon
  - Uses: Pots, Baskets, Combos

- **White Gold**
  - Height: 8 to 10 in. (20 to 25 cm)
  - Spread: 10 to 12 in. (25 to 30 cm)
  - Ideal Pot Sizes: Pack, Quart, Gallon, Larger than Gallon
  - Uses: Pots, Baskets, Combos

- **Yellow**
  - Height: 8 to 10 in. (20 to 25 cm)
  - Spread: 10 to 12 in. (25 to 30 cm)
  - Ideal Pot Sizes: Pack, Quart, Gallon, Larger than Gallon
  - Uses: Pots, Baskets, Combos
Choose **MiniFamous Uno** for combinations when mixing with other compact, mounded and early components.
MiniFamous® Neo
Calibrachoa
Calibrachoa cultivars
MEDIUM VIGOR | SEMI-TRAILING

- Uniform habit
- 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, Larger than Gallons
Uses: Pots, Baskets, Combos

Double White

White

White+Yellow Eye

Double Lemon

Deep Yellow

Double Deep Yellow

Double OrangeTastic

Orange+Red Eye

Lava+Red Eye

Deep Orange

Light Pink

Light Pink+Eye

NEW Double Pink 24

NEW Red Hawaii
Calibra Choa | 37

**ANNUALS**

SelectaNorthAmerica.com or 800 879-2255

**Salmon Pink+Eye**
- 3
- 2
- A

**Pink**
- 3
- 2
- A

**Pink Hawaii**
- 3
- 2
- A

**Double Red**
- 3
- 2
- A

**Vampire**
- 3
- 2
- A

**Violet Ice**
- 3
- 1
- A

**Double PlumTastic**
- 3
- 2
- A

**Light Blue**
- 3
- 1
- A

**Double Silver Blue**
- 3
- 2
- A

**Double Amethyst**
- 3
- 2
- A

**Blue**
- 2
- 2
- B

**Double Dark Blue**
- 3
- 3
- B

**Double Purple**
- 3
- 3
- A

**Purple**
- 3
- 2
- A

**Dark Blue**
- 4
- 1
- A

Scan to watch a MiniFamous Neo Pink Hawaii video!
**NEW** Brightside™
Erysimum

*Erysimum cultivars*

**MEDIUM VIGOR | UPRIGHT | EARLY SEASON**

- Medium vigor and bright colors
- Continuous blooming allows for a wider sales window – can be sold mid-February to June
- Reduced crop times, daylength neutral and no vernalization required
- Series offers more flowers, richer colors and better habits than standard erysimum

**Height:** 18 to 22 in. (46 to 56 cm)
**Spread:** 18 to 22 in. (46 to 56 cm)
**Ideal Pot Sizes:** Quarts, Gallons
**Uses:** Pots, Landscapes
**Cuphea**

*Cuphea hyssopifolia*

**MEDIUM VIGOR | MOUNDED | SUN LOVER**

- 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)
**USDA Hardiness Zone:** 9b to 11
**Ideal Pot Sizes:** Quarts, Gallons
**Uses:** Pots, Landscapes

![White Cuphea](image)
![Pink Cuphea](image)
![Purple Cuphea](image)

---

**Loreen™ Euphorbia**

*Euphorbia hypericifolia*

**COMPACT VIGOR | MOUNDED | HIGH DENSITY**

- 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

![Compact White Loreen Euphorbia](image)
![Variegata Loreen Euphorbia](image)

---

**Variegata Glechoma**

*Glechoma hederacea*

**LARGE VIGOR | TRAILING | SUN LOVER**

- 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)
**USDA Hardiness Zone:** 4b to 9a
**Ideal Pot Sizes:** Quarts, Gallons, Larger than Gallons
**Uses:** Pots, Baskets, Combos, Landscapes

![Variegata Glechoma](image)
Dahlia

Selecta One offers diversity in dahlias across five series, including 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.
**MEDIUM**
Vigor
pages 46-47

**LARGE**
Vigor
page 49

**Dalaya**
Raspberry
page 47

**Venti**
Passion Fruit Dahlia
page 49
Dahlia Red+Yellow Eye Dahlia
**Dahlita™ Dahlia**

*Dahlia pinnata*

**COMPACT VIGOR | UPRIGHT | HIGH DENSITY**

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

**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

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

*Dahlia pinnata*

**COMPACT VIGOR | MOUNDED | HIGH DENSITY**

- 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
Blanca

Shirley

Julia

Coby

Candy

Emily

Paula

Louise

Anna

Rachel

Tessy

Patty

Scan to watch a video about our Dahlia lineup!
City Lights™ Dahlia
*Dahlia hybrida*

**MEDIUM VIGOR | UPRIGHT**
- Dark leaves contrast with 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, Larger than Gallons
**Uses:** Pots, Landscapes

![Golden Yellow](image)

Purple

Orange

Red

Lavender Pink

Neon

City Lights
Golden Yellow
Dalaya® Dahlia

Dahlia hybrida

**MEDIUM VIGOR | UPRIGHT | SUN LOVER**

- 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, Larger than Gallons

**Uses:** Pots, Landscapes

- **White**
  - Height: 3
  - Spread: 3
  - Color: C

- **Yellow**
  - Height: 3
  - Spread: 2
  - Color: C

- **Yellow+Red Eye**
  - Height: 3
  - Spread: 2
  - Color: B

- **Apricot**
  - Height: 4
  - Spread: 2
  - Color: A

- **Pink+Lemon**
  - Height: 4
  - Spread: 2
  - Color: B

- **Pink+White**
  - Height: 4
  - Spread: 2
  - Color: A

- **Pink+Rose Eye**
  - Height: 4
  - Spread: 2
  - Color: B

- **Red+Yellow Eye**
  - Height: 3
  - Spread: 2
  - Color: A

- **Fireball**
  - Height: 3
  - Spread: 3
  - Color: B

- **Raspberry**
  - Height: 3
  - Spread: 2
  - Color: A

- **Vampire**
  - Height: 3
  - Spread: 3
  - Color: A

- **Purple+White**
  - Height: 3
  - Spread: 3
  - Color: B
Venti Red+White Dahlia
**Venti™ Dahlia**

*Dahlia pinnata*

**LARGE VIGOR | UPRIGHT | SUN LOVER**

- 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, Larger than Gallons

**Uses:** Pots, Landscapes

---

**Venti Dahlia** looks fantastic as a “thriller” item in combinations.

- **Royal Purple** 24
- **Pink + White Eye**

- **Passion Fruit**
- **Light Rose**

- **Lemon**
- **Golden Yellow**

- **Tequila Sunrise**
- **Mango**

- **Red + White**
Bellinto™ Fuchsia
Fuchsia cultivars

TRAILING

- Day neutral
- Free flowering
- Easy to grow

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

Compact Red+White

COMPACT VIGOR | HIGH DENSITY

Ideal Pot Sizes: Gallons
Uses: Pots, Baskets

Compact Red+Violet

COMPACT VIGOR | HIGH DENSITY

Ideal Pot Sizes: Gallons
Uses: Pots, Baskets

Red+White

MEDIUM VIGOR

Ideal Pot Sizes: Gallons, Larger than Gallons
Uses: Baskets

Red+Blue

MEDIUM VIGOR

Ideal Pot Sizes: Gallons, Larger than Gallons
Uses: Baskets
**Piccadilly™ Diascia**

*Diascia cultivars*

**MEDIUM VIGOR | MOUNDED | HIGH DENSITY**

- Early-flowering 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

---

**White**

- Height: 7 to 9 in. (18 to 23 cm)
- Spread: 8 to 10 in. (20 to 25 cm)
- Uses: Pots, Baskets, Combos

**Appleblossom**

- Height: 7 to 9 in. (18 to 23 cm)
- Spread: 8 to 10 in. (20 to 25 cm)
- Uses: Pots, Baskets, Combos

**Dark Salmon**

- Height: 7 to 9 in. (18 to 23 cm)
- Spread: 8 to 10 in. (20 to 25 cm)
- Uses: Pots, Baskets, Combos

**Pink**

- Height: 7 to 9 in. (18 to 23 cm)
- Spread: 8 to 10 in. (20 to 25 cm)
- Uses: Pots, Baskets, Combos

**Dark Red**

- Height: 7 to 9 in. (18 to 23 cm)
- Spread: 8 to 10 in. (20 to 25 cm)
- Uses: Pots, Baskets, Combos

---

**Mixed Container Featuring:**

- Piccadilly Dark Salmon

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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 wide selection of sizes will help you find the best options for your program.

**COMPACT**
Vigor
pages 54-55, 61

**MEDIUM**
Vigor
pages 56, 59-60

**LARGE**
Vigor
pages 58 and 62

Moonlight™
Dark Fuchsia
page 54

Sunrise™
Orange
page 56

Super Moon™
Red
page 58
Moonlight™
Zonal Geranium
*Pelargonium x hortorum*

**COMPACT VIGOR | UPRIGHT**
**NO PINCH | LABOR SAVER**

- Dark-foliage, 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, Larger than Gallons
**Uses:** Pots, Landscapes
White
$\text{3} \ 2 \ 1 \text{A}$

Light Salmon
$\text{2} \ 2 \ 1 \text{B}$

Orange
$\text{2} \ 2 \ 1 \text{B}$

Light Pink+Big Eye
$\text{3} \ 2 \ 1 \text{A}$

Pink
$\text{3} \ 2 \ 1 \text{A}$

Pink+Big Eye
$\text{3} \ 2 \ 1 \text{A}$

Raspberry Blush
$\text{3} \ 2 \ 1 \text{B}$

Dark Fuchsia
$\text{3} \ 2 \ 1 \text{B}$

Brilliant Red
$\text{3} \ 2 \ 1 \text{B}$

Dark Red
$\text{3} \ 2 \ 1 \text{B}$

Lavender
$\text{2} \ 3 \ 1 \text{A}$

Blue
$\text{3} \ 2 \ 1 \text{B}$
Sunrise™
Zonal Geranium
_Pelargonium x hortorum_

**MEDIUM VIGOR | UPRIGHT**
**NO PINCH | LABOR SAVER**

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

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

- **Purple+Big Eye**
  - Quarts: 2
  - Gallons: 2

- **White**
  - Quarts: 3
  - Gallons: 2

- **Light Salmon**
  - Quarts: 3
  - Gallons: 2

- **Salmon**
  - Quarts: 3
  - Gallons: 2
**Super Moon™**
Zonal Geranium
*Pelargonium x hortorum*

**LARGE VIGOR | UPRIGHT**
- Large-flowered zonal
- Vibrant blooms
- Very dark stems provide contrast

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

Super Moon makes an excellent “thriller” item in combinations.
Marcada™
Interspecific Geranium
*Pelargonium* cultivars

**MEDIUM VIGOR | SEMI-TRAILING**

- 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, Larger than Gallons
**Uses:** Pots, Baskets, Combos

![Marcada Magenta](image)

- **Electric Purple**
  - Variety Code: 3
  - Rating: 1
  - A

- **White**
  - Variety Code: 2
  - Rating: 1
  - A

- **Pink**
  - Variety Code: 4
  - Rating: 1
  - A

- **Pink+Purple Eye**
  - Variety Code: 3
  - Rating: 1
  - A

- **Magenta**
  - Variety Code: 4
  - Rating: 1
  - A

- **Orange**
  - Variety Code: 4
  - Rating: 1
  - A

- **Dark Red**
  - Variety Code: 3
  - Rating: 1
  - A

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

*Pelargonium peltatum*

**MEDIUM VIGOR | TRAILING | NO PINCH | LABOR SAVER**

- Early flowering for quick turns
- High oedema resistance for clean foliage
- Double-flowered ivy
- Well-branched habit

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

<table>
<thead>
<tr>
<th>Color</th>
<th>Code</th>
<th>Uses</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>V 3</td>
<td>2 B</td>
</tr>
<tr>
<td>Light Pink</td>
<td>V 3</td>
<td>2 B</td>
</tr>
<tr>
<td>Candy Cane*</td>
<td>V 2</td>
<td>2 B</td>
</tr>
<tr>
<td>Hot Pink</td>
<td>V 3</td>
<td>2 B</td>
</tr>
<tr>
<td>Scarlet Red</td>
<td>V 3</td>
<td>2 A</td>
</tr>
<tr>
<td>Dark Red</td>
<td>V 3</td>
<td>2 B</td>
</tr>
<tr>
<td>Dark Burgundy</td>
<td>V 3</td>
<td>2 B</td>
</tr>
<tr>
<td>Blue</td>
<td>V 3</td>
<td>2 C</td>
</tr>
<tr>
<td>Purple</td>
<td>V 3</td>
<td>2 B</td>
</tr>
</tbody>
</table>
**Glacier™**

*Ivy Geranium*

*Pelargonium peltatum*

**SEMI-TRAILING**

- 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:** Larger than Gallons
**Uses:** Baskets, Combos

---

**NEW Sidekicks™**

*Hebe*

*Veronica armstrongii*

**COMPACT VIGOR | MOUNDED | HIGH DENSITY**

- Grows as a perennial, providing year-round interest
- Dwarf evergreen shrubs have decorative leaves
- Very compact
- Attractive companion plants in Fall and Winter combinations
- Perfect for rock gardens and landscapes
- A genus of *Veroniceae*, like the perennial Veronica, hebe may eventually produce small blue or purple flowers, but it is prized more for its foliage.

**Height:** 6 to 7 in. (15 to 18 cm)
**Spread:** 5 to 6 in. (13 to 15 cm)
**Ideal Pot Sizes:** Quarts
**Uses:** Pots, Combos

---

SelectaNorthAmerica.com or 800 879-2255
Balcon Ivy Geranium

*Pelargonium peltatum*

**LARGE VIGOR | TRAILING**
**NO PINCH | LABOR SAVER**

- Large, colorful blooms
- Heat-tolerant 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:** Larger than Gallons
**Uses:** Baskets, Combos

- Pink 24
  - 4
  - 2
  - A

- Ice Dance Pink
  - 4
  - 3
  - A

- Shocking Pink
  - 4
  - 2
  - A

- Red
  - 4
  - 2
  - A

- Light Purple
  - 4
  - 2
  - A

Decora Ivy Geranium

*Pelargonium peltatum*

**LARGE VIGOR | TRAILING**
**NO PINCH | LABOR SAVER**

- Large, colorful blooms
- Heat-tolerant 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:** Larger than Gallons
**Uses:** Baskets, Combos

- Pink
  - 3
  - 2
  - A

- Shocking Pink
  - 3
  - 2
  - A

- Pink+Eye
  - 4
  - 2
  - A

- Red
  - 4
  - 2
  - A

- Light Purple
  - 2
  - 2
  - A
Silver Helichrysum

*Helichrysum italicum*

**NO PINCH | LABOR SAVER**
- 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

Add texture to your combinations with the Silver series. **Threads** is ideal for trailing baskets as a spiller, **Ribbon** adds thriller height and **Stitch** is best as a compact filler item.

Marino™ Heliotrope

*Heliotropium arborescens*

**MEDIUM VIGOR | UPRIGHT | HIGH DENSITY**
- Superbly scented
- Cuttings ship reliably
- Easy to grow

**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
ImPower™
New Guinea Impatiens

*Impatiens hawkeri*

**COMPACT VIGOR | UPRIGHT | HIGH DENSITY**
**NO PINCH | LABOR SAVER**

- 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
ColorPower™
New Guinea Impatiens
*Impatiens hawkeri*

**MEDIUM VIGOR | UPRIGHT**
**NO PINCH | LABOR SAVER**

- 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, Larger than Gallons
**Uses:** Pots, Baskets, Landscapes

---

**ColorPower**
*Orange*
Salmon Pink
(green foliage)

Peach Frost
(green foliage)

Coral Flame
(dark green foliage)

Orange Flame
(dark green foliage)

Orange
(green foliage)

Rose
(green foliage)

Dark Pink Flame
(dark green foliage)

Cerise Frost
(green foliage)

White Red Flame
(dark green foliage)

Red Flame
(green foliage)

Red
(green foliage)

Dark Red
(dark green foliage)

Orchid
(green foliage)

Lavender Flame
(dark green foliage)

Violet
(green foliage)

Purple Blue
(green foliage)
Bounce™
Interspecific Impatiens

Impatiens hawkeri

MEDIUM VIGOR | MOUNDED | SUN LOVER
NO PINCH | LABOR SAVER

- 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, Larger than Gallons
Uses: Pots, Baskets, Landscapes

White

Bright Coral

Cherry

Pink Flame

Violet

Bounce
Bright Coral and Violet
Goldilocks
Lysimachia

*Lysimachia nummularia*

**MEDIUM VIGOR | TRAILING**

- Low-care 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, Larger than Gallons
**Uses:** Pots, Baskets, Combos

---

Muehlenbeckia

*Muehlenbeckia complexa*

**COMPACT VIGOR | SEMI-TRAILING**

- 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)
**USDA Hardiness Zone:** 8a to 10b
**Ideal Pot Sizes:** Packs, Quarts, Gallons
**Uses:** Pots, Baskets, Combos, Landscapes
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 VIGOR | UPRIGHT | HIGH DENSITY**

- Early-flowering series features brilliant colors
- 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, Larger than Gallons
**Uses:** Pots

- **White**
  - (3) 2 1 B
- **Purple**
  - (2) 2 1 B
- **Blue Bay**
  - (2) 1 1 B
- **Blue**
  - (2) 1 1 B
- **Dark Blue**
  - (2) 2 1 A

Meet the fabulous two-tone Blue Bay Lobelia!
Magadi™ Lobelia

*Lobelia cultivars*

**UPRIGHT | SUN LOVER**

- 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, Larger than Gallons
Uses: Pots, Baskets, Combos, Landscapes

*Magadi is a top choice for combinations because of its stellar heat tolerance. It won’t die back when Summer kicks in.*

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**Magadi™ Basket Lobelia**

*Lobelia cultivars*

**LARGE VIGOR | SEMI-TRAILING**

- Large, floriferous plants
- Lovely blooms

Height: 6 to 10 in. (15 to 25 cm)
Spread: 12 to 14 in. (30 to 36 cm)
Ideal Pot Sizes: Gallons, Larger than Gallons
Uses: Pots, Baskets, Combos
NEW Whimsy™
Nemesia

*Nemesia fruticans*

**COMPACT VIGOR | UPRIGHT**
**HIGH DENSITY | EARLY SEASON**

- Excellent young plant supply
- Huge blooms
- Uniform series
- Compact habit
- Fragrant

*Height:* 10 to 12 in. (25 to 30 cm)
*Spread:* 8 to 10 in. (20 to 25 cm)
*Ideal Pot Sizes:* Packs, Quarts, Gallons
*Uses:* Pots, Baskets
FlowerPower™
Compact
Osteospermum
Osteospermum ecklonis
COMPACT VIGOR | MOUNDED
HIGH DENSITY | EARLY SEASON
• 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

White
Ø 2 Ø 2 Ø B

Yellow
Ø 2 Ø 3 Ø B

Pink+Eye
Ø 2 Ø 2 Ø B

Purple
Ø 2 Ø 2 Ø B

Purple Red
Ø 3 Ø 3 Ø B

FlowerPower™ Spider
Osteospermum
Osteospermum ecklonis
MEDIUM VIGOR | UPRIGHT | EARLY SEASON
• Unique, attractive flower shape
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, Larger than Gallons
Uses: Pots, Landscapes

White
Ø 3 Ø 2 Ø B

Pink
Ø 3 Ø 2 Ø B

Purple
Ø 3 Ø 2 Ø B

SelectaNorthAmerica.com or 800 879-2255
Daisy Falls™
Osteospermum

*Osteospermum ecklonis*

**MEDIUM VIGOR | TRAILING | EARLY SEASON**

- Early-Spring baskets and combos
- 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, Larger than Gallons
**Uses:** Pots, Baskets, Combos

**Daisy Falls** is a unique trailing Osteospermum that mixes well with other early-Spring products. Try with other basket Lobelia, Lobularia or Nemesia.

**Uses:** Pots, Baskets, Combos

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

**White Amethyst**
- 2
- 2
- A

**Pink**
- 3
- 1
- A

**Purple**
- 3
- 2
- A

Trix Daisy Falls Combo
Featuring **Daisy Falls** Pink, Purple and White Amethyst
4D™ Osteospermum

*Osteospermum hybrid*

**MEDIUM VIGOR | UPRIGHT | EARLY SEASON**

- Stays open 24/7
- Excellent branching; masses of blooms
- Superior series uniformity

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

- **White**
  - Height: 8 to 12 in. (20 to 30 cm)
  - Spread: 12 to 16 in. (30 to 41 cm)
  - Uses: Pots, Landscapes

- **Berry White**
  - Height: 8 to 12 in. (20 to 30 cm)
  - Spread: 12 to 16 in. (30 to 41 cm)
  - Uses: Pots, Landscapes

- **Violet Ice**
  - Height: 8 to 12 in. (20 to 30 cm)
  - Spread: 12 to 16 in. (30 to 41 cm)
  - Uses: Pots, Landscapes

- **Harvest Moon**
  - Height: 8 to 12 in. (20 to 30 cm)
  - Spread: 12 to 16 in. (30 to 41 cm)
  - Uses: Pots, Landscapes

- **Sunburst**
  - Height: 8 to 12 in. (20 to 30 cm)
  - Spread: 12 to 16 in. (30 to 41 cm)
  - Uses: Pots, Landscapes

- **Yellow**
  - Height: 8 to 12 in. (20 to 30 cm)
  - Spread: 12 to 16 in. (30 to 41 cm)
  - Uses: Pots, Landscapes

- **Purple**
  - Height: 8 to 12 in. (20 to 30 cm)
  - Spread: 12 to 16 in. (30 to 41 cm)
  - Uses: Pots, Landscapes

SelectaNorthAmerica.com or 800 879-2255
Zion Purple Sun Osteospermum
Zion™ Osteospermum

Osteospermum ecklonis

**MEDIUM VIGOR | UPRIGHT | EARLY SEASON**

• Collection inspired by the colors of Zion National Park
• Distinctive, novel colors on large flowers
• Excellent branching on a full 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, Larger than Gallons
**Uses:** Pots, Landscapes

![New Varieties](image)
Discover EnViva™ Petchoa:
1. Start with the flower power and weather tolerance of Calibrachoa...
2. Add the garden performance of Petunia...
3. And saturate with vibrant colors!

EnViva™

Trix Red & White Forever
Featuring EnViva Blue, Red and White
**NEW EnViva™ Petchoa**

*Calibrachoa x Petunia specialities*

**MEDIUM VIGOR | MOUNDED | SUN LOVER**

- The best attributes of both petunias and calibrachoas!
- Large, colorful flowers can be used in landscapes and containers
- Excellent cold/hot/rain weather performance
- More controlled habit compared to market standards
- Try our rock star, EnViva Pink!

**Height:** 10 to 16 in. (25 to 41 cm)
**Spread:** 20 to 30 in. (51 to 76 cm)

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

**Uses:** Pots, Baskets, Combos, Landscapes

---

Your imagination has no limit when mixing with EnViva Petchoa! Perfect in both multi-genera and mono-genera combinations.

---

- **White**
  - ø 2  ☘ 2  ☘ A

- **Pink**
  - ø 4  ☘ 2  ☘ A

- **Red**
  - ø 3  ☘ 2  ☘ A

- **Blue**
  - ø 3  ☘ 2  ☘ A

---

SelectaNorthAmerica.com or 800 879-2255
Petunia

No-pinch, labor-saver Starlet™ is fast to flower and early to finish, with a compact vigor.

Semi-trailing Headliner™ features large blooms with dramatic colors and medium vigor.

The durable blooms of Main Stage™ prove why it is Selecta One’s most vigorous trailing petunia series.
STARRING A SKY IN EVERY SIZE

NEW SweetSunshine™
Magenta Sky
page 89

Main Stage™
Glacier Sky
page 90

LARGE
Vigor
pages 90

MEDIUM
Vigor
pages 86-89
Starlet™ Petunia
Petunia cultivars

COMPACT VIGOR | MOUNDED | HIGH DENSITY
NO PINCH | LABOR SAVER

• Grower friendly 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

Starlet Petunia is the original choice for creating early-Spring combinations. The series has compact vigor and a mounded habit. Select other components with similar features for best success.

Trixie Cajun Flare Combo
Featuring Starlet Blueberry Vein
Headliner™ Petunia
Petunia cultivars

MEDIUM VIGOR | SEMI-TRAILING

- 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, Larger than Gallons
Uses: Pots, Baskets, Combos

NEW
Lavender Picotee

NEW
Blue 24

Violet Sky

White

Yellow

Dark Saturn

Banana Cherry

Light Pink Sky

Pink Sky

Raspberry Star

White Rose Vein

Pink Vein

Lipstick

Raspberry Swirl
Headliner Petunia is a top choice for making combinations in Spring. The series has medium vigor with controlled habits that play well with others.

Scan to watch an Enchanted Sky Petunia video!
NEW SweetSunshine™ Magenta Sky Petunia
SweetSunshine™ Petunia

*Petunia cultivars*

**MEDIUM VIGOR | SEMI-TRAILING**

- Magenta Sky, the FIRST double Sky!
- Durable, fully double blooms
- Well-branched plants
- Excellent 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, Larger than Gallons
**Uses:** Pots, Baskets, Combos
Main Stage™ Petunia

Petunia cultivars

**LARGE VIGOR | TRAILING**

- 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, Larger than Gallons

**Uses:** Pots, Baskets, Landscapes

- **White**
  - Height: 12 to 16 in. (30 to 41 cm)
  - Spread: 24 to 36 in. (61 to 91 cm)
  - Ideal pot sizes: Gallons, Larger than Gallons
  - Uses: Pots, Baskets, Landscapes

- **Pink**
  - Height: 12 to 16 in. (30 to 41 cm)
  - Spread: 24 to 36 in. (61 to 91 cm)
  - Ideal pot sizes: Gallons, Larger than Gallons
  - Uses: Pots, Baskets, Landscapes

- **Pink Vein**
  - Height: 12 to 16 in. (30 to 41 cm)
  - Spread: 24 to 36 in. (61 to 91 cm)
  - Ideal pot sizes: Gallons, Larger than Gallons
  - Uses: Pots, Baskets, Landscapes

- **Hot Pink**
  - Height: 12 to 16 in. (30 to 41 cm)
  - Spread: 24 to 36 in. (61 to 91 cm)
  - Ideal pot sizes: Gallons, Larger than Gallons
  - Uses: Pots, Baskets, Landscapes

- **Red**
  - Height: 12 to 16 in. (30 to 41 cm)
  - Spread: 24 to 36 in. (61 to 91 cm)
  - Ideal pot sizes: Gallons, Larger than Gallons
  - Uses: Pots, Baskets, Landscapes

- **Purple**
  - Height: 12 to 16 in. (30 to 41 cm)
  - Spread: 24 to 36 in. (61 to 91 cm)
  - Ideal pot sizes: Gallons, Larger than Gallons
  - Uses: Pots, Baskets, Landscapes

- **Blueberry**
  - Height: 12 to 16 in. (30 to 41 cm)
  - Spread: 24 to 36 in. (61 to 91 cm)
  - Ideal pot sizes: Gallons, Larger than Gallons
  - Uses: Pots, Baskets, Landscapes

- **Violet Picotee**
  - Height: 12 to 16 in. (30 to 41 cm)
  - Spread: 24 to 36 in. (61 to 91 cm)
  - Ideal pot sizes: Gallons, Larger than Gallons
  - Uses: Pots, Baskets, Landscapes

- **Violet**
  - Height: 12 to 16 in. (30 to 41 cm)
  - Spread: 24 to 36 in. (61 to 91 cm)
  - Ideal pot sizes: Gallons, Larger than Gallons
  - Uses: Pots, Baskets, Landscapes

- **Glacier Sky**
  - Height: 12 to 16 in. (30 to 41 cm)
  - Spread: 24 to 36 in. (61 to 91 cm)
  - Ideal pot sizes: Gallons, Larger than Gallons
  - Uses: Pots, Baskets, Landscapes
Senetti® Pericallis

*Senecio x hybrida*

**MEDIUM VIGOR | UPRIGHT**

- 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)
**USDA Hardiness Zone:** 9a to 11
**Ideal Pot Sizes:** Quarts, Gallons, Larger than Gallons
**Uses:** Pots

![Images of flowers including Magenta Bicolor, Magenta, Blue Bicolor, Cobalt Blue, and Pink Bicolor]

**NEW**

White Red Heart

Pink Bicolor

Magenta Bicolor

Magenta

Blue Bicolor

Cobalt Blue

Deep Blue

SENETTI is bred by Suntory Flowers Limited Corporation.
SENETTI is U.S. registered trademark of Suntory Flowers Limited Corporation.
Gisele® Phlox

Phlox cultivars

**COMPACT VIGOR | MOUNDED**

**HIGH DENSITY | SUN LOVER**

- Reliable rooting; dependable shipping
- 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,
Larger than Gallons

**Uses:** Pots, Baskets, Combos, Landscapes

---

**White**

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

**Red**

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

**Light Pink+Eye**

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

**Pink**

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

**Hot Pink**

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

**Red**

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

**Purple**

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

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Gisele®
Red and White
Trixi You PINKed My Interest Featuring
Gisele White, Hot Pink and Pink Phlox
PortoGrande™
Portulaca
Portulaca oleracea

**MEDIUM VIGOR | TRAILING | SUN LOVER**

- 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, Larger than Gallons
**Uses:** Pots, Baskets, Combos, Landscapes

- **Magenta**
- **White**
- **Orange**
- **Scarlet**
- **Yellow**

Mixed Container
Featuring PortoGrande™ Magenta, Scarlet and Yellow
Skyscraper™ Salvia

Salvia cultivars

LARGE VIGOR | UPRIGHT

• 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, Larger than Gallons
Uses: Pots, Landscapes

Skyscraper Pink

Orange

Skyscraper™ Salvia

Salvia cultivars

MEDIUM VIGOR | SEMI-TRAILING | SUN LOVER

• Well-branched plant
• 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, Larger than Gallons
Uses: Pots, Baskets, Combos, Landscapes

Fairy™ Scaevola

Scaevola aemula

White

Blue

Pink
Tsavo™ Sanvitalia
Sanvitalia procumbens

COMPACT VIGOR | MOUNDED | HIGH DENSITY

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

Sanvitalia is a surprising and satisfying mixing element. It brings better heat tolerance than a Bidens, but with just-as-bright yellow flowers.

Gold Mound Sedum
Sedum mexicanum

MEDIUM VIGOR | MOUNDED | HIGH DENSITY
SUN LOVER | NO PINCH | LABOR SAVER

- 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)
USDA Hardiness Zone: 8a to 11
Ideal Pot Sizes: Quarts, Gallons
Uses: Pots, Combos, Landscapes

Coral Reef Sedum
Sedum tetractinum

COMPACT VIGOR | SPREADING | HIGH DENSITY
SUN LOVER | NO PINCH | LABOR SAVER

- Low maintenance and adaptable
- Drought tolerant with low-watering requirements
- Ideal in containers, as a groundcover or in rock gardens
- Provides year-round production

Height: 2 to 3 in. (5 to 8 cm)
Spread: 6 to 10 in. (15 to 25 cm)
USDA Hardiness Zone: 3a to 9a
Ideal Pot Sizes: Quarts, Gallons
Uses: Pots, Combos, Landscapes
**Little Shimmer** Sedum

*Sedum cultivars*

**COMPACT VIGOR | TRAILING | HIGH DENSITY**

**SUN LOVER | NO PINCH | LABOR SAVER**

- Delicate and fast growing
- Small, bright green, variegated, heart-shaped leaves
- Low-maintenance, drought-tolerant groundcover
- Trailing component in hanging baskets
- Hardy down to Zone 6

**Height:** 2 to 3 in. (5 to 8 cm)

**Spread:** 5 to 7 in. (13 to 18 cm)

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

**Uses:** Pots, Baskets

---

**Little Shine** Sedum

*Sedum cultivars*

**COMPACT VIGOR | TRAILING | HIGH DENSITY**

**SUN LOVER | NO PINCH | LABOR SAVER**

- Delicate and fast growing
- Small, bright green, heart-shaped leaves
- Low-maintenance, drought-tolerant groundcover
- Trailing component in hanging baskets
- Hardy down to Zone 6

**Height:** 2 to 3 in. (5 to 8 cm)

**Spread:** 5 to 7 in. (13 to 18 cm)

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

**Uses:** Pots, Baskets
Verbena

Ranging from compact to large, Selecta One’s verbena collection has everything you need — like Beats™, our 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
page 104

Blues™
Lavender+Eye
page 104
NEW Trixi Can't Be Beat 24
Featuring Purple+White Beats Verbena

How much can Beats Verbena take and still look fresh? Scan here to see us DROP THE BEATS!
**Beats™ Verbena**

*Verbena cultivars*

**COMPACT VIGOR | SPREADING | HIGH DENSITY**  
**SUN LOVER | NO PINCH | LABOR SAVER**

- 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

It’s easy to create stunning mono-combos with the Beats series. Their hyper-uniform habit and timing make mixing and matching a breeze.
Lascar™ Verbena

*Verbena cultivars*

**MEDIUM VIGOR | SEMI-TRAILING | SUN LOVER**

- 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, Larger than Gallons
**Uses:** Pots, Baskets, Combos, Landscapes
Blues™ Verbena

Verbena cultivars

**LARGE VIGOR | UPRIGHT & SEMI-TRAILING**

**SUN LOVER**

- Big blooms with an eye
- 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, Larger than Gallons
**Uses:** Pots, Baskets, Combos, Landscapes

**Uses:** Pots, Baskets, Combos, Landscapes

- **Rose+Eye**
  - Variety Code: 3 3 A

- **Magenta+Eye**
  - Variety Code: 3 2 B

- **Red**
  - Variety Code: 3 3 A

- **Lavender+Eye**
  - Variety Code: 2 2 A

- **Violet+Eye**
  - Variety Code: 2 2 A

- **Purple+Eye**
  - Variety Code: 3 3 A

**Blues Verbena** is the ultimate mixing verbena. Thanks to its semi-upright nature, blooms appear on the top of the mix, not just around the base.
**DIANTHUS**

**Key**

- **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
# Dianthus

From lacy and petite to loud and proud, today’s dianthus varieties are no wallflowers. Look for show-stopping colors that include pinks, whites, reds, lavenders and purples, and fascinating flowers that boast multiple hues, dark eyes and double blooms. Their timing ranges from Very Early to Late, covering your whole production season. Check out all the varieties and add dianthus to your crop turns today!

## Available Dianthus Varieties

<table>
<thead>
<tr>
<th>Series</th>
<th>Potted Plant</th>
<th>Works in Landscape</th>
<th>Perennial</th>
<th>Annual</th>
<th>Flower Type</th>
<th>Size/ Habit</th>
<th>Pot Sizes Description</th>
<th>Description</th>
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</thead>
</table>
| Capitán    | X            | X                  | 7a        | X      | Double      | Upright     | 2.5 qt., (2.8 L) 8 to 14 in (20 to 35 cm) planters | • Large vigorous plant.  
• Can be used as a cut flower.  
• Great in ground and in containers.  
• Long season flowering. |
| Carmen     | X            | 5b                 | X         |        | Double      | Medium Upright | 1 to 2.5 qt. (1 to 2.8 L) | • True carnation.  
• Excellent uniformity.  
• Blooms continuously until frost.  
• Overwinters better than others. |
| DiaDeur    | X            | 6a                 | X         |        | Double      | Medium Upright | 6 in. to 2.5 qt. (1 to 2.8 L) | • Fully double blooms.  
• Fragrant flowers.  
• Multicolored blooms.  
• Ideal for container and garden use. |
| Early Love | X            | 7a                 | X         |        | Double      | Compact Upright | 4 to 6 in. (10 to 15 cm) | • Excellent branching.  
• Early flowering.  
• Large, double bicolor blooms.  
• Ideal bouquets for Valentine’s Day. |
| EverLast   | X            | 5a                 | X         |        | Single and Double | Medium Upright | 2.5 qt (2.8 L) | • Extremely floriferous.  
• Blooms early in Spring, late into Summer, again in Fall. |
| I Love U   | X            | 7a                 | X         |        | Double      | Compact Mounded | 2 to 4 in. (5 to 10 cm) | • Colors range from deep pink to white.  
• Marketing retail program available. |
| Oscar      | X            | 6a                 | X         |        | Double      | Compact Upright | 4 in., 1 qt. (10 cm, 1 L) bowls, planters | • Excellent bloom life.  
• Heat and frost tolerant.  
• Blooms last in various conditions.  
• Ideal as a potted gift plant. |
| Palm Peach | X            | 7a                 | X         |        | Single      | Compact Upright | 2 to 4 in. (5 to 10 cm) | • Compact potted plant.  
• Extremely long-lasting flowers.  
• Excellent windowsill plant. |
| Pashmina   | X            | 5b                 | X         |        | Petite Single | Low-Growing Spreading | Packs to 2.5 qt (2.8 L) | • Very well matched series  
• Perfect for core color gallon programs  
• Good for large indoor pot carnations |
| Pink Kisses| X            | X                  | 5a        | X      | Semi-Double | Compact Upright | 2 to 4 in. (5 to 10 cm) | • Vibrant two-tone flowers.  
• No deadheading.  
• Ideal grab-and-go gifts for retail. |
| Purple Wedding | X        | 7a                 | X         |        | Semi-Double | Compact Upright | 4 to 6 in. (10 to 15 cm) | • Upright carnation with bicolor blooms.  
• Attracts pollinators to gardens.  
• Frost-tolerant flowers.  
• Works well as an indoor potted plant. |
| Scully     | X            | 5a                 | X         |        | Single      | Compact Upright | 2 to 4 in. (5 to 10 cm) | • Vivid purple with striking dark leaves.  
• Handles cold and wet conditions.  
• Thrives in Summer gardens.  
• Works well as an indoor potted plant. |
| SuperTrouper | X          | X                  | 6a        | X      | Double      | Medium Upright | 6 in. to 2.5 qt. (1 to 2.8 L) | • Fully double blooms.  
• Fragrant flowers.  
• Excellent pot carnation.  
• Ideal for container and garden use. |
| Vivacia    | X            | X                  | 7a        | X      | Double      | Upright      | 6 in. to 2.5 qt. (1 to 2.8 L) | • Excellent landscape product.  
• Can be used as a groundcover.  
• Masses of delicate flowers. |

Check out our scheduling charts on page 120 or scan to utilize our interactive guide!
NOW LANDING

Your Proven Dianthus Supply Chain

We are the ONLY USDA-approved breeding company supplying you with 14 varieties of dianthus cuttings from offshore production into the U.S.

Here’s your opportunity to:
• Receive any quantity you need, all in one shipment.
• Offer your customers plants for every occasion.
• Keep your costs down and your profits up.

Dianthus Solutions Customized for You
Visit selectanorthamerica.com/Dianthus and:
• See our full selection of dianthus varieties and choose the best varieties for your needs based on type, timing and pot size.
• Download FREE eye-catching point-of-purchase materials.
• Download our dianthus scheduling guide.
NEW Capitán Pink+Eye Dianthus
NEW Capitán™ Dianthus

*Dianthus cultivars*

**LARGE VIGOR | UPRIGHT**

- Growers can expect smooth sailing with Capitán Dianthus!
- A premium Dianthus series with XL vigor that can be sold for a premium price
- Novel bicolor double blooms
- Prized for its lovely fragrance
- Durability through cold-chain shipping processes in retail settings

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

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

**USDA Hardiness Zone:** 7a to 10b

**Uses:** Pots, Combos, Landscapes

**NEW Capitán™ Magnifica**

- White+Pink
  - 3
  - 3
  - B

- Pink+Eye
  - 3
  - 2
  - B

- Magnifica
  - 4
  - 2
  - B

- Red White Edge
  - 3
  - 2
  - B

- White+Purple
  - 3
  - 3
  - B

- Purple Frost
  - 4
  - 2
  - B

- Purple+White
  - 3
  - 2
  - B
NEW Vivacia™
Dianthus

*Dianthus cultivars*

**MEDIUM VIGOR | MOUNDED**
- Features large, vivid solid colors
- Very uniform series
- 20% larger than SuperTrouper series
- Ideal for large containers, combinations and garden beds

**Height:** 10 to 16 in. (25 to 41 cm)
**Spread:** 10 to 14 in. (25 to 36 cm)
**Ideal Pot Sizes:** Gallons
**Uses:** Pots, Combos, Landscapes

---

NEW Pashmina™
Dianthus

*Dianthus cultivars*

**SPREADING**
- Excellent in the landscape
- Super-tough, overwintering series is hardy in Zone 5a
- Blooms Spring through Summer, and comes back year after year
- 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
I Love U Dianthus and Pot Carnation  

*Dianthus caryophyllus*

**COMPACT VIGOR | MOUNDED | HIGH DENSITY**

- Always displays a full range of colors
- Works both indoors and outdoors
- Pollinators love this fragrant carnation
- Colors range from deep pink to soft rose to white
- Marketing retail program available

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

*Dianthus cultivars*

**COMPACT VIGOR | UPRIGHT**

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

---

Scan to download point-of-purchase materials.
Early Love® Dianthus

*Dianthus cultivars*

**COMPACT VIGOR | UPRIGHT**

- Early flowering, unique bicolor
- Large, double blooms on short stems
- Great match to Pink Kisses®
- Excellent branching
- Ideal bouquets for Valentine’s Day

**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

**Early Love**
WHERE LOVE GROWS!

![Early Love Dianthus](image)

*Tags*

[Scan to download point-of-purchase materials.](#)
Carmen™ Dianthus

*Dianthus cultivars*

**MEDIUM VIGOR | UPRIGHT**

- Zone 5 hardy, true perennial
- Overwinters better than other carnations
- Excellent uniformity
- Double blooms
- True carnation
- Blooms continuously until frost

**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
**SuperTrouper™ Dianthus**

*Dianthus caryophyllus*

**Upright & Mounded**

- Double flowers
- 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, Larger than Gallons
**Uses:** Pots, Combos, Landscapes

![Flower Images]

- Orange
- Light Pink
- Silver Pink
- Red+White
- Red+Pink
- Scarlet
- Lavender+Eye
- Purple
- Yellow 24
- White
**EverLast™ Dianthus**

*Dianthus interspecific*

**MEDIUM VIGOR | UPRIGHT & MOUNDED**

- 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, Baskets, Combos, Landscapes

![Cherry Swirl](image1)
![Neon Pink](image2)
![White+Eye](image3)
![Pink to White](image4)
![Pink Star](image5)
![Orchid](image6)
![Raspberry Cream](image7)
![Red+Pink](image8)
![Velvet](image9)
![Lavender+Eye](image10)
![Violet Blue](image11)
**Oscar**® Dianthus

*Dianthus caryophyllus*

**COMPACT VIGOR | MOUNDED**

- Hyper-uniform pot carnation series
- Best-branched habit on the market
- Long-lasting double blooms
- Stunning in mono-combos

**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

**Light Rose**
- **Height:** 20 to 25 cm
- **Spread:** 20 to 25 cm

**Neon Pink**
- **Height:** 20 to 25 cm
- **Spread:** 20 to 25 cm

**White**
- **Height:** 20 to 25 cm
- **Spread:** 20 to 25 cm

**Salmon**
- **Height:** 20 to 25 cm
- **Spread:** 20 to 25 cm

**Pink**
- **Height:** 20 to 25 cm
- **Spread:** 20 to 25 cm

**Pink+Purple**
- **Height:** 20 to 25 cm
- **Spread:** 20 to 25 cm

**Red Star**
- **Height:** 20 to 25 cm
- **Spread:** 20 to 25 cm

**Cherry**
- **Height:** 20 to 25 cm
- **Spread:** 20 to 25 cm

**Cherry+Velvet**
- **Height:** 20 to 25 cm
- **Spread:** 20 to 25 cm

**Dark Red**
- **Height:** 20 to 25 cm
- **Spread:** 20 to 25 cm

**Purple Star**
- **Height:** 20 to 25 cm
- **Spread:** 20 to 25 cm

**Violet+Pink**
- **Height:** 20 to 25 cm
- **Spread:** 20 to 25 cm

**Purple**
- **Height:** 20 to 25 cm
- **Spread:** 20 to 25 cm
**Scully Dianthus**
*Dianthus caryophyllus*

**COMPACT VIGOR | UPRIGHT**
- Vivid purple blooms contrast striking dark foliage
- Early and mid-Spring sales
- Versatile for indoor or outdoor use
- Grow cool for low-energy production
- Handles cold and wet conditions
- Thrives in Summer gardens
- Works well as indoor potted plants

**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

---

**DiaDeur™ Dianthus**
*Dianthus caryophyllus*

**MEDIUM VIGOR | UPRIGHT & MOUNDED**
- Well-branched habit
- Low-energy growing; weather tolerant
- Fully double, multicolored blooms
- Fragrant flowers
- Ideal for containers – both indoor and outdoor – and garden use

**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, Larger than Gallons
**Uses:** Pots, Combos, Landscapes
**Palm Peach** Dianthus

*Dianthus cultivars*

**MEDIUM VIGOR | UPRIGHT**

- 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

---

**Purple Wedding™** Dianthus

*Dianthus cultivars*

**MEDIUM VIGOR | UPRIGHT**

- Tricolored purple blooms include a dark eye
- Early, upright, dark-leafed carnation.
- Frost tolerant and lasts for months.
- Attracts pollinators to gardens.
- Works well as indoor potted plants.

**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
# Dianthus and Carnations

## Scheduling Guide

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<td>DiaDeur, Oscar, Pashmina, Scully, SuperTrouper</td>
<td>Capitán, Carmen, EverLast, Purple Wedding, Vivacia</td>
<td>Palm Peach, Pink Kisses</td>
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<tr>
<td>Propagation</td>
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<td>66°-70° F 19°-21° C</td>
<td>66°-70° F 19°-21° C</td>
<td>66°-70° F 19°-21° C</td>
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<td>60°-70° F 15°-19° C</td>
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<td>62°-70° F 17°-20° C</td>
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### Growing Conditions

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</table>

**SCHEDULING GUIDE**

SelectaNorthAmerica.com/Dianthus/Schedule

Can't decide on the right dianthus and carnation for your growing conditions? Scan the QR code to open our interactive selection tool!
POTTED PLANTS

Don’t forget! Many of our Dianthus varieties add a pop of color indoors, when grown in pots, while other varieties look fantastic in gardens and landscapes. Flip back to page 106 to see the Dianthus varieties we recommend for growing outdoors.

Key

<table>
<thead>
<tr>
<th>Vigor</th>
<th>Flowering Time</th>
<th>Heat Tolerance</th>
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</thead>
<tbody>
<tr>
<td>1 low</td>
<td>1 very early</td>
<td>A excellent</td>
</tr>
<tr>
<td>2 low-medium</td>
<td>2 early</td>
<td>B very good</td>
</tr>
<tr>
<td>3 medium</td>
<td>3 standard</td>
<td>C good</td>
</tr>
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<td>4 medium-high</td>
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<tr>
<td>5 high</td>
<td></td>
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</tbody>
</table>
Mandala Bright Orange, Yellow and Light Pink Kalanchoe

See how bright Mandala Kalanchoe’s blooms are in this quick video.
Mandala™ Kalanchoe
Kalanchoe blossfeldiana

**MEDIUM VIGOR | UPRIGHT | HIGH DENSITY**

- The most uniform kalanchoe series
- Consistent vigor, shape and response time
- Programmable, easy production

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

**Add green to your Kalanchoe scene!**
Croco adds a textural element to mixes for a high-end look. Mix Croco with Red and White for a Christmas concept or with Yellow or Orange for St. Patrick’s Day style.

---

**Dark Red**
3, Response Time: 8 weeks
Bloom Size: 3.5 mm

**White**
3, Response Time: 8 weeks,
Bloom Size: 3.5 mm

**Light Pink**
3, Response Time: 8 weeks,
Bloom Size: 4 mm

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

**Pink**
3, Response Time: 7.5 weeks,
Bloom Size: 2.5 mm

**Orange**
3, Response Time: 8 weeks,
Bloom Size: 2.5 mm

**Red**
4, Response Time: 8 weeks,
Bloom Size: 3.5 mm

**Yellow**
4, Response Time: 7.5 weeks,
Bloom Size: 3.5 mm

**Double Orange**
3, Response Time: 7.5 weeks,
Bloom Size: 2.5 mm

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

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

**Purple**
3, Response Time: 8 weeks,
Bloom Size: 4 mm

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

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

**Light Pink**
3, Response Time: 7.5 weeks,
Bloom Size: 2.5 mm

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

**Rose**
3, Response Time: 8 weeks,
Bloom Size: 2.5 mm

**Croco**
4, Response Time: 7.5 weeks

---

SelectaNorthAmerica.com or 800 879-2255

KALANCHOE | 123
Calynopsis™
Calceolaria
Calceolaria hybrida

**MEDIUM VIGOR | UPRIGHT | EARLY SEASON**

- 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
PERENNIALS

Don’t forget! Many of our dianthus varieties are well-suited as perennials. Flip back to page 106 to see the ones we recommend for perennial use in gardens and landscapes.

Key

<table>
<thead>
<tr>
<th>Vigor</th>
<th>Flowering Time</th>
<th>Heat Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>B</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>C</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

- 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
**Belleza® Gaura**

*Gaura lindheimeri*

**MEDIUM VIGOR | UPRIGHT**

**HIGH DENSITY | SUN LOVER**

- Excellent branching
- 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
Sweet Dreams™ Blue
Lavandula
*Lavandula angustifolia*

**MEDIUM VIGOR | UPRIGHT | SUN LOVER**

- 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
LaVela™ Lavender
Lavandula stoechas

**MEDIUM VIGOR | UPRIGHT**

- Tender perennial
- Flowers for early-season sales
- Large and showy blooms
- 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, Larger than Gallons
**Uses:** Pots, Combos

LaVela Dark Violet
Greek Columnar
Basil
page 130

Key
- **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
Herbs

Home garden-to-kitchen table cooking is increasing in popularity. Take advantage of this trend with Selecta One’s quality vegetative herb collection!

Selecta One’s sweet and savory herbs liven up home gardeners’ window boxes, patio pots, garden borders and kitchen countertops. Spice up your growing routine by ordering beautiful and flavorful herbs today!
All the Product Forms You Need

Selecta One offers you a range of different product forms including unrooted cuttings and TrixiLiners. Also available are AutoStix® 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 (URCs)
All Selecta One varieties are available as URCs.
- Variety minimum/multiples of 100
- Order minimum is 2,000
- Available exclusively through Ball Seed®
- Also available in AutoStix® strip

AutoStix® 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

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 is 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 5 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 and 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 2024

<table>
<thead>
<tr>
<th>Variety</th>
<th>Recommended Replacement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bacopa Big Falls Dark Blue</td>
<td>Bacopa Big Falls Dark Blue 24</td>
</tr>
<tr>
<td>Bacopa Big Falls Dark Pink</td>
<td>Bacopa Big Falls Dark Pink 24</td>
</tr>
<tr>
<td>Bacopa Big Falls Pearl</td>
<td>Bacopa Big Falls Pearl 24</td>
</tr>
<tr>
<td>Bracteantha Mohave Dark Red 23</td>
<td>Bracteantha Mohave Fire Red</td>
</tr>
<tr>
<td>Bracteantha Mohave White</td>
<td>Bracteantha Mohave White 24</td>
</tr>
<tr>
<td>Calceolaria Calypnosis Red</td>
<td>Calceolaria Calypnosis Red 24</td>
</tr>
<tr>
<td>Calceolaria Calypnosis Yellow</td>
<td>Calceolaria Calypnosis Yellow 24</td>
</tr>
<tr>
<td>Calibrachoa MiniFamous Neo Double Pink</td>
<td>Calibrachoa MiniFamous Neo Double Pink 24</td>
</tr>
<tr>
<td>Dianthus SuperTrouper Yellow</td>
<td>Dianthus SuperTrouper Yellow 24</td>
</tr>
<tr>
<td>Dianthus Dianthalot Dark Red*Star</td>
<td>Dianthus Pashmina Berry Red</td>
</tr>
<tr>
<td>Dianthus Dianthalot Pink*Star</td>
<td>Dianthus Pashmina Magenta</td>
</tr>
<tr>
<td>Dianthus EverLast Burgundy Blush</td>
<td>Dianthus EverLast Red*Pink</td>
</tr>
<tr>
<td>Dianthus EverLast Magenta</td>
<td>Dianthus EverLast Neon Pink</td>
</tr>
<tr>
<td>Dianthus EverLast Purple</td>
<td>Dianthus EverLast Red*Pink</td>
</tr>
<tr>
<td>Diascia Piccadilly Dark Orange</td>
<td>Diascia Piccadilly Dark Salmon</td>
</tr>
<tr>
<td>Geranium, Ivy Bacon Pink</td>
<td>Geranium, Ivy Bacon Pink 24</td>
</tr>
<tr>
<td>Geranium, Ivy Royal Brilliant Red</td>
<td>Geranium, Ivy Royal Scarlet Red</td>
</tr>
<tr>
<td>Geranium, Zonal Moonlight Coral</td>
<td>Geranium, Zonal Moonlight Hot Coral</td>
</tr>
<tr>
<td>Geranium, Zonal Moonlight Red</td>
<td>Geranium, Zonal Moonlight Red 24</td>
</tr>
<tr>
<td>Geranium, Zonal Sunrise Pink*Big Eye</td>
<td>Geranium, Zonal Sunrise Purple*Big Eye</td>
</tr>
<tr>
<td>Geranium Zonal Moonlight Raspberry Blush 23</td>
<td>Geranium Zonal Moonlight Raspberry Blush</td>
</tr>
</tbody>
</table>

### Renamed Selecta One Varieties for 2024

<table>
<thead>
<tr>
<th>Variety</th>
<th>2024 Rename</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bidens Namid Compact Yellow 23</td>
<td>Bidens Namid Compact Yellow</td>
</tr>
<tr>
<td>Bracteantha Mohave Apricot 23</td>
<td>Bracteantha Mohave Apricot</td>
</tr>
<tr>
<td>Calibrachoa MiniFamous Uno Double White 23</td>
<td>Calibrachoa MiniFamous Uno Double White</td>
</tr>
<tr>
<td>Calibrachoa MiniFamous Uno Pink 23</td>
<td>Calibrachoa MiniFamous Uno Pink</td>
</tr>
<tr>
<td>Dahlia Dahlietta Anna 23</td>
<td>Dahlia Dahlietta Anna</td>
</tr>
<tr>
<td>Dahlia Dahlietta Patty 23</td>
<td>Dahlia Dahlietta Patty</td>
</tr>
<tr>
<td>Dahlia Venti Tequila Sunrise 23</td>
<td>Dahlia Venti Tequila Sunrise</td>
</tr>
<tr>
<td>Geranium Zonal Moonlight Raspberry Blush 23</td>
<td>Geranium Zonal Moonlight Raspberry Blush</td>
</tr>
<tr>
<td>Lavandula LaVela Compact Dark Pink 23</td>
<td>Lavandula LaVela Compact Dark Pink</td>
</tr>
<tr>
<td>New Guinea Impatiens ColorPower Orange 23</td>
<td>New Guinea Impatiens ColorPower Orange</td>
</tr>
<tr>
<td>New Guinea Impatiens ImPower Orange 23</td>
<td>New Guinea Impatiens ImPower Orange</td>
</tr>
<tr>
<td>Petunia Headliner Pink Sky 23</td>
<td>Petunia Headliner Pink Sky</td>
</tr>
<tr>
<td>Sanvitalia Tsavo Yellow Compact 23</td>
<td>Sanvitalia Tsavo Yellow Compact</td>
</tr>
<tr>
<td>Scaevola Fairy Pink 23</td>
<td>Scaevola Fairy Pink</td>
</tr>
<tr>
<td>Trixi On the Double 23</td>
<td>Trixi On the Double</td>
</tr>
<tr>
<td>Trixi Starlight Starbright 23</td>
<td>Trixi Starlight Starbright</td>
</tr>
</tbody>
</table>
Important Plant Protection & Licensing Information

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

**Note: please refer to the Selecta North America website for current U.S. patent information.**

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 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 propagation 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) 588-3111 or (630) 588-3311.

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. Images may not be sublicensed or resold. 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 “Propagating 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.
Note: Ball Terms & Conditions of Sale are country/region specific. The following Terms & Conditions of Sale apply to product sold within the United States and Canada.

Acceptance of Terms
These terms and conditions shall govern orders or purchase orders (merchandise) placed with Seller. All negotiations with sales representatives or other agents of Seller are merged herein. No modification of these terms and conditions shall be effective unless in writing signed by Seller. Acceptance of these terms and conditions shall constitute Purchaser’s acceptance of these terms and conditions. All orders are subject to acceptance by Seller at our offices in West Chicago, Illinois.

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

Limitation of Remedy
PURCHASER’S SOLE AND EXCLUSIVE REMEDY SHALL BE REFUND OF THE PURCHASE PRICE, SELLER’S LIABILITY, WHETHER FOR BREACH OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE, PRODUCTS LIABILITY OR ANY OTHER THEORY OF LIABILITY, IS LIMITED TO THE AMOUNT OF THE PURCHASE PRICE, UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE, OR FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES. SELLER MAKES NO OTHER OR FURTHER WARRANTY, EXPRESS OR IMPLIED, OTHER THAN A FURTHER WARRANTIES, INCLUDING ANY WARRANTIES OF MERCHANTABILITY, TITLE, NON-INFRINGEMENT, AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED. Certain merchandise may be separately warranted by the manufacturer. Seller does not adopt or ratify any manufacturer warranties, express or implied, and Seller shall have no liability thereunder. Seller does not adopt or ratify any manufacturer warranties, express or implied, and Seller shall have no liability thereunder.

Mandatory Arbitration
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 the Limitation of Warranty, Limitation of Remedy, Mandatory Arbitration, Governing Law, Jurisdiction and Venue, and Notification regarding Seed-Borne Diseases in language substantially equivalent to that contained in these Terms & Conditions of Sale.

Indemnity
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 PDAs before the debit is processed.

Freight & Handling
Charges, Inspection, Damaged Goods
The freight and handling charge on Purchaser’s invoice covers shipment of the merchandise to Purchaser’s destination, and replacement or credit for damaged merchandise if the steps listed hereunder 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, if defect 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 unordered cuttings must be received at least five (5) days prior to scheduled ship date. Cancellations for liners or seed-raised plugs must be received prior to stick or sow date. 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.
### Rooting Guide

(PGR) = Plant Growth Regulators

(S) = Spray

(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.

---

#### Crop Series/Variety

<table>
<thead>
<tr>
<th>Crop</th>
<th>Series/Variety</th>
<th>Recommended Cell Size (in millimeters)</th>
<th>Rooting Hormone (IBA + NAA mix)</th>
<th>Average Days with Mist</th>
<th>Early PGR Treatment Recommended (after 7 - 10 days)</th>
<th>Average Propagation Weeks</th>
<th>Pinch in Propagation</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ajuga</strong></td>
<td>Ajuga reptans</td>
<td>25/35 mm recommended</td>
<td></td>
<td>10-18</td>
<td>no</td>
<td>6 to 7</td>
<td>no</td>
<td></td>
</tr>
<tr>
<td><strong>Ajuga</strong></td>
<td>Ajuga x tenorii</td>
<td>25/35 mm optional</td>
<td></td>
<td>10-18</td>
<td>no</td>
<td>6 to 7</td>
<td>Optional</td>
<td></td>
</tr>
<tr>
<td><strong>Bacopa</strong></td>
<td>Sutera grandiflora</td>
<td>25 mm no</td>
<td></td>
<td></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><strong>Begonia</strong></td>
<td>Begonia boliviensis</td>
<td>Compact Double Apricot, Mistral®, Orange Lantern</td>
<td>25/35 mm optional</td>
<td>0 to 3, reduce mist as soon as possible</td>
<td>yes</td>
<td>4 to 5</td>
<td>Optional</td>
<td></td>
</tr>
<tr>
<td><strong>Bidens</strong></td>
<td>Bidens frerulifolia</td>
<td>Namid™</td>
<td></td>
<td>7 to 9</td>
<td>yes</td>
<td>3 to 4</td>
<td>Optional</td>
<td>Avoid stretch.</td>
</tr>
<tr>
<td><strong>Bracteantha</strong></td>
<td>Bracteantha bracteata</td>
<td>Mohave™</td>
<td></td>
<td>9 to 12</td>
<td>4 to 5</td>
<td>4 to 5</td>
<td>No</td>
<td>Reduce mist as soon as possible; apply preventive fungicide treatment after sticking.</td>
</tr>
<tr>
<td><strong>Calceolaria</strong></td>
<td>Calceolaria hybrida</td>
<td>Calynopsis™</td>
<td></td>
<td>9 to 12</td>
<td>5 to 6</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><strong>Calibrachoa</strong></td>
<td>Calibrachoa cultivars</td>
<td>MiniFamous® Neo</td>
<td></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>
</tr>
<tr>
<td><strong>Calibrachoa</strong></td>
<td>Calibrachoa hybrida</td>
<td>MiniFamous® Uno</td>
<td></td>
<td>9 to 12</td>
<td>4 to 5</td>
<td>4 to 5</td>
<td>Optional</td>
<td></td>
</tr>
<tr>
<td><strong>Cuphea hyssopfolia</strong></td>
<td>Cuphea hyssopfolia</td>
<td>Pink, Purple, White</td>
<td></td>
<td>14</td>
<td>5</td>
<td>5</td>
<td>Optional</td>
<td></td>
</tr>
<tr>
<td><strong>Dahlia</strong></td>
<td>Dahlia hybrida</td>
<td>City Lights™</td>
<td></td>
<td>9 to 12</td>
<td>yes, B-Nine 1,500 PPM (S)</td>
<td>5</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td><strong>Dahlia</strong></td>
<td>Dahlia pinnata</td>
<td>Dahlietta®, Dahliita™</td>
<td></td>
<td>9 to 12</td>
<td>3 to 4</td>
<td>4</td>
<td>Optional</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><strong>Dahlia</strong></td>
<td>Dahlia hybrida</td>
<td>Dalaya™</td>
<td></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>

---

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.

---

See page 142 for Finishing Guide
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.

## Rooting Guide

<table>
<thead>
<tr>
<th>Crop</th>
<th>Series/Variety</th>
<th>Recommended Cell Size (in millimeters)</th>
<th>Rooting Hormone (IBA + NAA mix)</th>
<th>Average Days with Mist</th>
<th>Early PGR Treatment Recommended (after 7 - 10 days)</th>
<th>Average Propagation Weeks</th>
<th>Pinch in Propagation</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dahlia</strong></td>
<td><em>Dahlia pinnata</em></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>Begin feed regimen 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></td>
<td><em>Dianthus cultivars</em></td>
<td>25/35 mm</td>
<td>recommended</td>
<td>14 to 21</td>
<td>optional</td>
<td>5 to 6</td>
<td>optional</td>
<td>Keep very moist for the first 7 days, then reduce mist to avoid saturated media.</td>
</tr>
<tr>
<td><strong>Dianthus</strong></td>
<td><em>Dianthus cultivars</em></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></td>
<td><em>Dianthus caryophyllus</em></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></td>
<td><em>Dianthus interspecific</em></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></td>
<td><em>Dianthus caryophyllus</em></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></td>
<td><em>Dianthus caryophyllus</em></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></td>
<td><em>Dianthus caryophyllus</em></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>Diascia</strong></td>
<td><em>Diascia cultivars</em></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>
</tbody>
</table>

(PGR) = Plant Growth Regulators
(S) = Spray
(D) = Drench

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## Rooting Guide

### Crop | Series/Variety | Recommended Cell Size (in millimeters) | Rooting Hormone (IBA + NAA mix) | Average Days with Mist | Early PGR Treatment Recommended (after 7 - 10 days) | Average Propagation Weeks | Pinch in Propagation | Comments |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Erysimum</strong>&lt;br&gt; Erysimum cultivars</td>
<td><strong>Brightside™</strong></td>
<td>25/35 mm</td>
<td>yes</td>
<td>10 to 14</td>
<td>1/2 Bonzi Spray, 2000 B-Nine Spray will delay flowering</td>
<td>5 to 6</td>
<td>optional</td>
<td>&lt;br&gt;Note: Preventive fungicide treatment after sticking. Avoid stretch.</td>
</tr>
<tr>
<td><strong>Fuchsia</strong>&lt;br&gt; Fuchsia cultivars</td>
<td><strong>Bellinto™</strong></td>
<td>25 mm</td>
<td>no</td>
<td>7 to 10</td>
<td>0</td>
<td>4</td>
<td>yes</td>
<td>Avoid stretch and overwatering of young plants.</td>
</tr>
<tr>
<td><strong>Gaura</strong>&lt;br&gt; Gaura lindheimeri</td>
<td><strong>Belleza™</strong></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>
<tr>
<td><strong>Geranium</strong> (Interspecific)&lt;br&gt; Pelargonium cultivars</td>
<td><strong>Marcada™</strong></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><strong>Geranium (Ivy)</strong>&lt;br&gt; Pelargonium peltatum</td>
<td><strong>Balcon, Decora, Royal™</strong></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><strong>Geranium (Ivy)</strong>&lt;br&gt; Pelargonium peltatum</td>
<td><strong>Glacier</strong></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><strong>Geranium (Zonal)</strong>&lt;br&gt; Pelargonium x hortorum</td>
<td><strong>Moonlight™</strong>, <strong>Sunrise™</strong></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><strong>Geranium (Zonal)</strong>&lt;br&gt; Pelargonium x hortorum</td>
<td><strong>Super Moon™</strong></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><strong>Glechoma</strong>&lt;br&gt; Glechoma hederacea</td>
<td><strong>Variegata</strong></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 avoiding cross-tangling of cells.</td>
</tr>
<tr>
<td><strong>Hebe</strong>&lt;br&gt; <strong>Sidekicks</strong></td>
<td></td>
<td>25/35 mm</td>
<td>yes</td>
<td>14 to 18</td>
<td>optional</td>
<td>&lt;br&gt;Note: Preventive fungicide treatment after sticking. Avoid excessive mist for the first several days in propagation.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Helichrysum</strong>&lt;br&gt; Helichrysum italicum</td>
<td><strong>Silver</strong></td>
<td>25 mm</td>
<td>optional</td>
<td>15</td>
<td>optional</td>
<td>5</td>
<td>no</td>
<td>Avoid excessive mist for the first several days in propagation.</td>
</tr>
<tr>
<td><strong>Heliotrope</strong>&lt;br&gt; Heliotropium arborescens</td>
<td><strong>Marino™</strong></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><strong>Impatien (Interspecific)</strong>&lt;br&gt; Impatiens hawkeri</td>
<td><strong>Bounce™</strong></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>
</tbody>
</table>

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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.
## Rooting Guide

<table>
<thead>
<tr>
<th>Crop</th>
<th>Series/Variety</th>
<th>Recommended Cell Size (in millimeters)</th>
<th>Rooting Hormone (IBA + NAA mix)</th>
<th>Average Days with Mist</th>
<th>Early PGR Treatment Recommended (after 7 - 10 days)</th>
<th>Average Propagation Weeks</th>
<th>Pinch in Propagation</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impatiens (New Guinea)</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 hawkeri</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Impatiens (New Guinea)</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>Impatiens hawkeri</td>
<td></td>
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</tr>
<tr>
<td>Kalanchoe</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>
<tr>
<td>Kalanchoe blossfeldiana</td>
<td></td>
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</tr>
<tr>
<td>Lavandula</td>
<td>Sweet Dreams™ Blue</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 drive root development.</td>
</tr>
<tr>
<td>Lavandula angustifolia</td>
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<tr>
<td>Lavender</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>Lavandula stoechas</td>
<td></td>
<td></td>
<td></td>
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<td></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>
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<td></td>
<td></td>
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<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>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>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Muehlenbeckia complexa</td>
<td>Muehlenbeckia</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>Nemesia</td>
<td>Whimsy™</td>
<td>20/25 mm</td>
<td>No</td>
<td>6 to 9</td>
<td>3 to 4</td>
<td></td>
<td>recommended</td>
<td></td>
</tr>
<tr>
<td>Nemesia fruticans</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Osteospermum 4D™</td>
<td></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>Osteospermum hybrid</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Osteospermum 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>Osteospermum 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>
<td></td>
</tr>
<tr>
<td>Pericallis</td>
<td>Senetti*</td>
<td>25 mm</td>
<td>yes</td>
<td>21</td>
<td>4 (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>
</tbody>
</table>

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<th>Comments</th>
</tr>
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<tbody>
<tr>
<td><strong>Petchoa</strong></td>
<td>EnViva™</td>
<td>25/35 mm</td>
<td>optional</td>
<td>10 to 18</td>
<td>optional</td>
<td>5 to 6</td>
<td>optional</td>
<td></td>
</tr>
<tr>
<td><strong>Petunia</strong></td>
<td>Petunia cultivars</td>
<td>Headliner™, Starlet™, SweetSunshine™</td>
<td>25 mm</td>
<td>no</td>
<td>7 to 9</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>
<tr>
<td><strong>Petunia</strong></td>
<td>Petunia cultivars</td>
<td>Main Stage™</td>
<td>30 mm</td>
<td>no</td>
<td>7 to 9</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>Phlox cultivars</td>
<td>Gisele®</td>
<td>25 mm</td>
<td>no</td>
<td>12</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>Portulaca oleracea</td>
<td>PortoGrande™</td>
<td>25 mm</td>
<td>no</td>
<td>7 to 9</td>
<td>3 to 4</td>
<td>optional</td>
<td>Avoid overwatering of young plants.</td>
</tr>
<tr>
<td><strong>Salvia</strong></td>
<td>Salvia cultivars</td>
<td>Skyscraper™</td>
<td>25 mm</td>
<td>optional</td>
<td>14</td>
<td>4</td>
<td>yes</td>
<td>Use B-Nine 2,500 PPM spray.</td>
</tr>
<tr>
<td><strong>Sanvitalia</strong></td>
<td>Sanvitalia procumbens</td>
<td>Tsavo™</td>
<td>25 mm</td>
<td>no</td>
<td>7 to 9</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>Scaevola aemula</td>
<td>Fairy™</td>
<td>25 mm</td>
<td>recommended</td>
<td>9 to 12</td>
<td>5 to 6</td>
<td>optional</td>
<td>Keep cuttings hydrated.</td>
</tr>
<tr>
<td><strong>Sedum</strong></td>
<td>Sedum tetractinum</td>
<td>Coral Reef</td>
<td>25/35 mm</td>
<td>no</td>
<td>12 to 18</td>
<td>5 to 6</td>
<td>no</td>
<td></td>
</tr>
<tr>
<td><strong>Sedum</strong></td>
<td>Sedum mexicanum</td>
<td>Gold Mound</td>
<td>25/35 mm</td>
<td>no</td>
<td>12 to 18</td>
<td>5 to 6</td>
<td>no</td>
<td></td>
</tr>
<tr>
<td><strong>Sedum</strong></td>
<td>Sedum cultivars</td>
<td>Little Shimmer, Little Shine</td>
<td>25/35 mm</td>
<td>no</td>
<td>12 to 18</td>
<td>5 to 6</td>
<td>no</td>
<td></td>
</tr>
<tr>
<td><strong>Trixi®</strong></td>
<td>Mixed Combination</td>
<td>Trixi recipes</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>Verbena cultivars</td>
<td>Beats™</td>
<td>25 mm</td>
<td>optional</td>
<td>7 to 9</td>
<td>2 to 3</td>
<td>optional</td>
<td>Avoid overwatering after root formation.</td>
</tr>
<tr>
<td><strong>Verbena</strong></td>
<td>Verbena cultivars</td>
<td>Blues™, Lascar™</td>
<td>25 mm</td>
<td>optional</td>
<td>7 to 9</td>
<td>3 to 4</td>
<td>optional</td>
<td>Avoid stretch; reduce and stop misting as soon as possible.</td>
</tr>
</tbody>
</table>

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## 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><strong>Ajuga</strong></td>
<td>Burgundy Glow</td>
<td>5.8-6.2</td>
<td>100-150 ppm N EC 1.4-1.8</td>
<td>moderate</td>
<td>50-65 F(10-18)C</td>
<td>optional</td>
<td>4,000 to 7,000</td>
</tr>
<tr>
<td></td>
<td>Ajuga reptans</td>
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<tr>
<td><strong>Ajuga</strong></td>
<td>Chocolate Chip</td>
<td>5.8-6.2</td>
<td>100-150 ppm N EC 1.4-1.8</td>
<td>moderate</td>
<td>50-65 F(10-18)C</td>
<td>optional</td>
<td>4,000 to 7,000</td>
</tr>
<tr>
<td></td>
<td>Ajuga x tenorii</td>
<td></td>
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</tr>
<tr>
<td><strong>Bacopa</strong></td>
<td>Big Falls™</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>4,000 to 5,000</td>
</tr>
<tr>
<td></td>
<td>Sutera grandiflora</td>
<td></td>
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</tr>
<tr>
<td><strong>Begonia</strong></td>
<td>Compact Double Apricot, Mistral®, Orange Lantern</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>keep N up</td>
<td>65-75°F/50-60°F 18-24°C/10-16°C</td>
<td>yes; pinch to node #3 but before developing node #5</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td></td>
<td>Begonia boliviensis</td>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td><strong>Bidens</strong></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></td>
<td>Bidens ferulifolia</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Bracteantha</strong></td>
<td>Mohave™</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></td>
<td>Bracteantha bracteata</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td><strong>Calceolaria</strong></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></td>
<td>Calceolaria hybrida</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Calibrachoa</strong></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></td>
<td>Calibrachoa cultivars</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Calibrachoa</strong></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></td>
<td>Calibrachoa hybrida</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Cuphea</strong></td>
<td>Pink, Purple, White</td>
<td>5.5-6.4</td>
<td>modest 150-200 PPM N constant feed</td>
<td>moderate</td>
<td>68-90°F/60-80°F 20-32°C/16-27°C</td>
<td>optional</td>
<td>5,000 to 7,000</td>
</tr>
<tr>
<td></td>
<td>Cuphea hyssopifolia</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Dahila</strong></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>65-77°F/55-65°F 18-25°C/13-18°C</td>
<td>yes</td>
<td>4,000 to 7,000</td>
</tr>
<tr>
<td></td>
<td>Dahlia pinnata</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td><strong>Dahila</strong></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>yes; pinch to node #3 but before developing node #5</td>
<td>4,000 to 6,000</td>
</tr>
<tr>
<td></td>
<td>Dahlia pinnata</td>
<td></td>
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</tr>
</tbody>
</table>

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

### Watering
- **“Keep constantly moist” means watering the plants just before substrate (substrate color turns light brown and substrate starts to separate from the pot edge) before watering.**
- **“Growing on the dry side” means letting the substrate become dry minimally during short days.**
- **“Avoid cold conditions and night-break lighting will reduce the likelihood of tuber formation.”**
- **“Pinch as needed for improved plant habit. Let media dry out between watering.”**

### Diseases
- **Aphids, Mites, Thrips, Botrytis, Pythium, Powdery Mildew, Thielaviopsis, Spider Mites**

### Pests
- **Aphids, Leafminer, Botrytis, Pythium, Thrips, Aphids, Spiders**

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

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

5 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.
<table>
<thead>
<tr>
<th>Plant Growth Regulators (PGR)</th>
<th>Pests and Fungal Diseases</th>
<th>Comments</th>
<th>CROP TIME FROM ROOTED CUTTING/PLANTS PER POT (PPD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(S) = spray / (D) = drench</td>
<td></td>
<td></td>
<td>4- to 5-inch (10- to 13-cm) Pots, Quarts</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>6-inch (15-cm) Pots, Gallons</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10- to 12-inch (25- to 30-cm) Tubs or Baskets</td>
</tr>
<tr>
<td>Aphids, Sclerotinia</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>7-10 weeks 1 ppp</td>
<td>10-14 weeks (varies seasonally)  3 ppp</td>
</tr>
<tr>
<td>Aphids, Sclerotinia</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-Nine 750-1,500 PPM (S),</td>
<td>Thrips, Aphids, Botrytis,</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 7 weeks, 1 ppp</td>
</tr>
<tr>
<td>Sumagic 5-10 PPM (S)/</td>
<td>Pythium</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sumagic 0.25 PPM (D)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-Nine 2,500 PPM (S),</td>
<td>Aphids, Botrytis, Pythium</td>
<td>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.</td>
<td>7 to 8 weeks, 1 ppp</td>
</tr>
<tr>
<td>250-500 PPM Cyocel (S)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-Nine 2,500 PPM (S),</td>
<td>Thrips, Aphids, Spider Mites, Botrytis, Pythium</td>
<td>Pinch as needed for improved plant habit. Let media dry out between watering.</td>
<td>5 to 7 weeks, 1 ppp</td>
</tr>
<tr>
<td>Sumagic 5-10 PPM (S),</td>
<td>Aphids, White Fly, Pythium</td>
<td>Cool temperatures and high light levels will improve plant quality.</td>
<td>6 to 7 weeks, 1 ppp</td>
</tr>
<tr>
<td>Bonzi 10-20 PPM (S)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>none</td>
<td>Spider Mites</td>
<td>Provide cool temperatures and short days during bulking period. Provide long days (night interrupt) and cool to moderate temperatures for flower induction.</td>
<td>8 to 10 weeks, 1 ppp</td>
</tr>
<tr>
<td>B-Nine 2,500-3,500 PPM (S),</td>
<td>Powdery Mildew, Pythium, Thieliaviopsis, TMV, Aphids, Fungus Gnats, Thrips</td>
<td>Start Calibrachoa warm. After side shoots have developed, cool temperatures and high light levels will improve plant quality. Watch for Fe deficiency.</td>
<td>7 to 8 weeks, 1 ppp</td>
</tr>
<tr>
<td>Sumagic 10-20 PPM (S),</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bonzi 1-2 PPM (D)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-Nine 1,500 PPM (S),</td>
<td>Thieliaviopsis, Powdery Mildew, Aphids, Mites</td>
<td>Cool temperatures and high light levels will improve plant quality.</td>
<td>5 to 7 weeks, 1 ppp</td>
</tr>
<tr>
<td>Bonzi 1 PPM (D)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>none</td>
<td>Aphids, Mites, Thrips, Botrytis</td>
<td>Aphids, Mites, Thrips, Spider Mites, Powdery Mildew</td>
<td>5 to 6 weeks, 1 ppp</td>
</tr>
<tr>
<td>B-Nine 2,500 PPM (S),</td>
<td>Pythium, Botrytis, Aphids, Thrips, Spider Mites, Powdery Mildew, Root Rot, Powdery Mildew</td>
<td>Night-break lighting will reduce likelihood of tuber formation.</td>
<td>5 to 7 weeks, 1 ppp</td>
</tr>
<tr>
<td>B-Nine 1,000 PPM (S)/Cyocel 500 PPM (S) tank mix, Bonzi 2 to 4 PPM (D)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-Nine 2,500-4,000 PPM (S),</td>
<td>Phytophthora, Powdery Mildew, Pythium, Aphids, Leafminer, Spider Mites, Thrips</td>
<td>Night-break lighting will reduce likelihood of tuber formation.</td>
<td>6 to 8 weeks, 1 ppp</td>
</tr>
<tr>
<td>Cyocel 1,000-1,500 PPM tank mix (S)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Typically not needed. If necessary, B-Nine 1000 PPM/ Cyocel 500 PPM works well.</td>
<td>Aphids, Fungus Gnats, Leafminer, Spider Mites, Thrips, Phytophthora, Powdery Mildew, Botrytis, Pythium</td>
<td>Night-break lighting will reduce likelihood of tuber formation.</td>
<td>6 to 8 weeks, 1 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 to 12°F/13 to -17°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

<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><strong>Dahlia</strong> Dahlia hybrida</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> Dahlia pinnata</td>
<td>Venti™</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> Dianthus cultivars</td>
<td>Capitán™</td>
<td>5.8-6.2</td>
<td>100-150 ppm N/EC 1.4-1.8</td>
<td>moderate</td>
<td>60-68°F/50-60°F 15-20°C/10-16°C</td>
<td>yes</td>
<td>4,000 to 7,000</td>
</tr>
<tr>
<td><strong>Dianthus</strong> Dianthus cultivars</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> Dianthus caryophyllus</td>
<td>DiaDeur™</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>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Dianthus</strong> Dianthus cultivars</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> Dianthus interspecific</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> Dianthus caryophyllus</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> Dianthus caryophyllus</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> Dianthus cultivars</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> Dianthus cultivars</td>
<td>Pashmina™</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>60-70°F/50-55°F 18-21°C/10-16°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Dianthus</strong> Dianthus cultivars</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> Dianthus cultivars</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>

*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.
<table>
<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 13-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)/ Cytocel 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/Cytocel 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>Bonzi spray at 1-3 ppm</td>
<td>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), 1 to 2 ppp</td>
<td>18 to 20 weeks (varies seasonally), 3 to 5 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), 1 to 2 ppp</td>
<td>18 to 20 weeks (varies seasonally), 3 to 5 ppp</td>
</tr>
<tr>
<td>B-Nine 2,500 PPM (S), Cytocel 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>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), 1 to 2 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></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></td>
<td>12 to 14 weeks (varies seasonally), 1 ppp</td>
<td>14 to 16 weeks (varies seasonally), 1 to 2 ppp</td>
<td>14 to 16 weeks (varies seasonally), 3 to 5 ppp</td>
</tr>
<tr>
<td>B-Nine 2,500 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), 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>16 to 22 weeks (varies seasonally), 4 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), 1 to 2 ppp</td>
<td>14 to 16 weeks (varies seasonally), 3 to 5 ppp</td>
</tr>
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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. 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 to 12°F/5 to 7°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

<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>Dianthus</td>
<td>Dianthus caryophyllus</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 13-20°C/7-13°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td>Dianthus</td>
<td>Dianthus caryophyllus</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>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td>Dianthus</td>
<td>Dianthus cultivars</td>
<td>5.8-6.2</td>
<td>100-150 ppm N/EC 1.4-1.8</td>
<td>moderate</td>
<td>60-68°F/50-60°F 15-20°C/10-16°C</td>
<td>yes</td>
<td>4,000 to 7,000</td>
</tr>
<tr>
<td>Diascia</td>
<td>Diascia 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/35-52°F 18-24°C/2-11°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td>Erysimum</td>
<td>Erysimum cultivars</td>
<td>5.8-6.2</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>
<tr>
<td>Euphorbia</td>
<td>Euphorbia hypericifolia</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>Fuchsia</td>
<td>Fuchsia cultivars</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>Gaura</td>
<td>Gaura lindheimeri</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>Geranium (Interspecific)</td>
<td>Pelargonium cultivars</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>Geranium (Ivy)</td>
<td>Pelargonium peltatum</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>Geranium (Ivy)</td>
<td>Pelargonium peltatum</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 13-27°C/10-18°C</td>
<td>yes</td>
<td>4,000 to 6,000</td>
</tr>
<tr>
<td>Geranium (Zonal)</td>
<td>Pelargonium x hortorum</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>Geranium (Zonal)</td>
<td>Pelargonium x hortorum</td>
<td>5.4-6.5</td>
<td>moderate</td>
<td>40-70°F/60-90°F 4-21°C/16-32°C</td>
<td>yes</td>
<td>2,500 to 7,000</td>
<td></td>
</tr>
<tr>
<td>Glechoma</td>
<td>Glechoma hederacea</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>
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*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.

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

- **Cycocel (S)** at 500-1,000 PPM, recommended 3,000 to 6,000 Pots, Gallons
- **B-Nine** 2,500 PPM (S) + Bonzi 2-5 PPM (S), recommended 5,000 to 6,000 PPM (S) / Drench
- **B-Nine** 2,500 PPM (S), Bonzi 2-5 PPM (S)
<table>
<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 13-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>
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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></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 1-3 PPM (S), Cyoccel 750 PPM (S)</td>
<td>Mites, Fusarium</td>
<td>For best results, grow cool and bright.</td>
<td>12 to 14 weeks (varies seasonally), 1 ppp</td>
<td>12 to 14 weeks (varies seasonally) 1 ppp</td>
<td>12 to 16 weeks (varies seasonally) 3-5 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 2,500 PPM (S), Bonzi 2-5 PPM (S); PGRs are optional.</td>
<td>Mites, Aphids, Botrytis</td>
<td></td>
<td>12 to 16 weeks (varies seasonally), 1 ppp</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-Nine (S) 2,500 PPM, Cyoccel (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)</td>
<td>Aphids, Thrips, Botrytis, Pythium, Rust</td>
<td>Pinch early for a better habit, especially in larger containers.</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 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>Cyoccel (S) at 500-1,000 PPM, use a light spray to glisten.</td>
<td>Aphids, Spider Mites, Thrips, Botrytis, Pythium</td>
<td></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>Cyoccel 750-1,000 PPM + B-Nine 1,500-2,500 PPM tank mix (S), Bonzi 2-5 PPM (S)/ Cyoccel 750-1,500 PPM (D)</td>
<td>Thrips, Fungus Gnats, Spiders Mites, 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 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 Cyoccel (S) at a rate of 500-1,000 PPM as needed.</td>
<td></td>
<td>Water in mornings only to prevent oedema.</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>Cyoccel 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, 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>Cyoccel 700-1,500 PPM (S)</td>
<td>Botrytis, Pythium, Ralstonia, Xanthomonas, Mites, Worms/Caterpillars</td>
<td></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></td>
<td>An easy-to-root vine that can grow aggressively if fed and watered well.</td>
<td></td>
<td>5 to 6 weeks, 1 ppp</td>
<td>6 to 8 weeks, 1 ppp</td>
<td>10 to 12 weeks, 4 ppp</td>
</tr>
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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. 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 to 12°F/-13 to -11°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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<th>Crop</th>
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<tr>
<td><strong>Hebe</strong></td>
<td>Veronica armstrongii</td>
<td>Sidekicks™</td>
<td>5.8-6.2</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>
</tr>
<tr>
<td><strong>Helichrysum</strong></td>
<td>Helichrysum italicum</td>
<td>Silver</td>
<td>5.8-6.2</td>
<td>moderate</td>
<td>moderate</td>
<td>60-70°F/16-21°C</td>
<td>no</td>
</tr>
<tr>
<td><strong>Heliotrope</strong></td>
<td>Heliotropium arborescens</td>
<td>Marino™</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/21-24°C</td>
<td>no</td>
</tr>
<tr>
<td><strong>Impatiens (Interspecific)</strong></td>
<td>Impatiens hawkeri</td>
<td>Bounce™</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/20-26°C</td>
<td>no</td>
</tr>
<tr>
<td><strong>Impatiens (New Guinea)</strong></td>
<td>Impatiens hawkeri</td>
<td>ColorPower™</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/21-26°C</td>
<td>recommended for larger containers</td>
</tr>
<tr>
<td><strong>Impatiens (New Guinea)</strong></td>
<td>Impatiens hawkeri</td>
<td>ImPower™</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/21-26°C</td>
<td>no</td>
</tr>
<tr>
<td><strong>Kalanchoe</strong></td>
<td>Kalanchoe blossfeldiana</td>
<td>Mandala™</td>
<td>5.5-6.2</td>
<td>100-150 PPM N balanced feed media EC 0.6-1.2</td>
<td>maintain moderate moisture</td>
<td>68-75°F/20-24°C</td>
<td>optional</td>
</tr>
<tr>
<td><strong>Lavandula</strong></td>
<td>Lavandula angustifolia</td>
<td>Sweet Dreams™ Blue</td>
<td>5.8-6.2</td>
<td>100-150 PPM N constant feed</td>
<td>moderate</td>
<td>50-90°F/15-32°C</td>
<td>yes</td>
</tr>
<tr>
<td><strong>Lavender</strong></td>
<td>Lavandula stoechas</td>
<td>LaVela™</td>
<td>5.8-6.2</td>
<td>150-200 PPM N</td>
<td>grow on the dry side</td>
<td>60-75°F/15-23°C</td>
<td>yes</td>
</tr>
<tr>
<td><strong>Lobelia</strong></td>
<td>Lobelia cultivars</td>
<td>Magadi™ Basket</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/18-25°C</td>
<td>yes</td>
</tr>
<tr>
<td><strong>Lobelia</strong></td>
<td>Lobelia cultivars</td>
<td>Magadi™, Magadi™ Compact</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</td>
<td>yes</td>
</tr>
<tr>
<td><strong>Lysimachia</strong></td>
<td>Lysimachia nummularia</td>
<td>Goldilocks</td>
<td>5.5-6.2</td>
<td>200 PPM N</td>
<td>moderate</td>
<td>50-85°F/10-29°C</td>
<td>optional</td>
</tr>
<tr>
<td><strong>Muehlenbeckia</strong></td>
<td>Muehlenbeckia complexa</td>
<td>Muehlenbeckia</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>
</tr>
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* 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.
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<th>Plant Growth Regulators (PGR)</th>
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<th>Comments</th>
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<th>6-inch (15-cm) Pots, Gallons</th>
<th>10- to 12-inch (25- to 30-cm) Tubs or Baskets</th>
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<tr>
<td>B-Nine 2,500 PPM (S), Bonzi 2-5 PPM (S); PGRs are optional.</td>
<td>Mites, Aphids, Botrytis</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>16 to 20 weeks (varies seasonally), 4 ppp</td>
<td></td>
</tr>
<tr>
<td>B-Nine 1,500 PPM (S)</td>
<td>Caterpillars, Aphids, 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 2,500 PPM (S), Cycopel 1,000 PPM + B-Nine 2,500 PPM tank mix (S)</td>
<td>White Fly, Spider Mites, 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>B-Nine 1,500 PPM (S)</td>
<td>Thrips, Aphids, Mites, INSV, 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, 3 to 4 ppp</td>
</tr>
<tr>
<td>Bonzi 2-5 PPM (S)</td>
<td>Thrips, Aphids, Spider Mites, Botrytis, 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/bowls/combos: 18 weeks, 3 ppp</td>
</tr>
<tr>
<td>none</td>
<td>Aphids, Spider Mites, Thrips, Pythium, Botrytis</td>
<td>Grow cool and on the dry side.</td>
<td>14 to 16 weeks, 1 ppp</td>
<td>16 to 20 weeks, 1 to 2 ppp</td>
<td>None recommended</td>
</tr>
<tr>
<td>none</td>
<td>Rosemary Beetle, 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, 3 to 5 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>Very easy to grow.</td>
<td>5 to 7 weeks, 1 ppp</td>
<td>6 to 9 weeks, 3 ppp</td>
<td>None</td>
</tr>
<tr>
<td>none</td>
<td>Mites</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>
<td></td>
</tr>
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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. 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 to 12°F/13 to -11°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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<table>
<thead>
<tr>
<th>Crop</th>
<th>Series/Variety</th>
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<th>Fertilizer Needs</th>
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</tr>
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<tbody>
<tr>
<td><em>Nemesia</em></td>
<td>Whimsy™</td>
<td>5.8-6.2</td>
<td>4,000-7,000</td>
<td>dry</td>
<td>60-68°F/50-60°F 15-20°C/10-16°C</td>
<td>optional</td>
<td>4,000 to 7,000</td>
</tr>
<tr>
<td><em>Osteospermum</em></td>
<td>4D™</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>dry</td>
<td>59-76°F/35-55°F 15-24°C/2-13°C</td>
<td>recommended</td>
<td>5,000 to 9,000</td>
</tr>
<tr>
<td><em>Osteospermum</em></td>
<td>Daisy Falls™</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>dry</td>
<td>50-75°F/40-60°F 15-24°C/4-16°C</td>
<td>optional</td>
<td>5,000 to 8,000</td>
</tr>
<tr>
<td><em>Osteospermum</em></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</td>
<td>60-65°F/35-52°F 16-18°C/2-11°C</td>
<td>recommended</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><em>Pericallis</em></td>
<td>Senetti®</td>
<td>5.5-6.0</td>
<td>medium 260 PPM</td>
<td>light</td>
<td>70-75°F/50-55°F 21-24°C/10-13°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><em>Petunia</em> cultivars</td>
<td>EnViva™</td>
<td>5.8-6.2</td>
<td>100-150 PPM N/EC 1.4-1.8</td>
<td>moderate</td>
<td>60-68°F/50-60°F 15-20°C/10-16°C</td>
<td>Optional</td>
<td>4,000 to 4,000</td>
</tr>
<tr>
<td><em>Petunia</em> cultivars</td>
<td>Headliner™, SweetSunshine™</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/50-60°F 18-24°C/10-16°C</td>
<td>recommended</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><em>Petunia</em> cultivars</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/50-60°F 18-24°C/15-16°C</td>
<td>yes</td>
<td>5,000 to 8,000</td>
</tr>
<tr>
<td><em>Petunia</em> cultivars</td>
<td>Starlet™</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/50-60°F 18-24°C/15-16°C</td>
<td>recommended</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><em>Phlox</em> cultivars</td>
<td>Gisele®</td>
<td>5.8-6.2</td>
<td>150-200 PPM N</td>
<td>avoid overwatering</td>
<td>65-80°F/50-65°F 18-27°C/15-18°C</td>
<td>recommended</td>
<td>3,000 to 9,000</td>
</tr>
<tr>
<td><em>Portulaca</em> oleracea</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/60-65°F 18-24°C/16-18°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><em>Salvia</em> cultivars</td>
<td>Skyscraper™</td>
<td>5.8-6.2</td>
<td>moderate</td>
<td>moderate</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><em>Sanvitalia</em> procumbens</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/55-60°F 21-24°C/13-16°C</td>
<td>yes</td>
<td>4,000 to 5,000</td>
</tr>
</tbody>
</table>

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

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

4 **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.

5 **Light Levels in Foot Candles**: Refer to the chart in the Finishing Guide for specific light levels.
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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 13-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>Low requirement, B-Nine 2,000 PPM if needed</td>
<td>Aphids, Pythium</td>
<td>Grow cool and bright for best results.</td>
<td>7 to 10 weeks 1 ppp</td>
<td>10 to 14 weeks (varies seasonally) 3 ppp</td>
<td>NA</td>
</tr>
<tr>
<td>Cycoce 750-1,500 PPM (S), Cycoce 750-1,500 PPM (D), Sumagic 0.5-1 PPM (D)</td>
<td>Thrips, White Fly, Aphids, Botrytis, Pythium, Rhizoctonia</td>
<td>It is recommended to NOT use B-Nine on 4D osteos, as it may have a negative effect on the expression of double flowers.</td>
<td>10 to 13 weeks 1 ppp</td>
<td>11 to 14 weeks 1 ppp</td>
<td>12 to 15 weeks 3 ppp</td>
</tr>
<tr>
<td>B-Nine/Cycoce 2,000 (S), or low-level Bonzi 0.5-1 PPM (D)</td>
<td>Aphids, Thrips, Botrytis, Pythium</td>
<td>9 to 12 weeks 1 ppp</td>
<td>10 to 13 weeks 1 ppp</td>
<td>10 to 14 weeks 3 ppp</td>
<td></td>
</tr>
<tr>
<td>Cycoce 1,000 PPM + B-Nine 2,500 PPM tank mix (S), Sumagic 5-10 PPM (S)</td>
<td>Aphids, White Fly, Thrips, Botrytis, Pythium</td>
<td>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.</td>
<td>9 to 12 weeks 1 ppp</td>
<td>10 to 13 weeks 1 ppp</td>
<td>10 to 14 weeks 3 ppp</td>
</tr>
<tr>
<td>B-Nine 2,000 PPM (S) every 14 days.</td>
<td>Aphids, Mites, White Fly, Thrips, Powdery Mildew, Thielaviopsis</td>
<td>Avoid overwatering, avoid frost; shade in last three weeks of finishing may cause stretch.</td>
<td>10 to 20 weeks 1 ppp</td>
<td>10 to 20 weeks 1 ppp</td>
<td>10 to 20 weeks 1 ppp</td>
</tr>
<tr>
<td>B-Nine Cycoce 2,000/750 PPM, Bonzi drench 1 PPM as needed</td>
<td>7 to 10 weeks 1 ppp</td>
<td>7 to 10 weeks (varies seasonally) 3 ppp</td>
<td>12 to 16 weeks (varies seasonally) 3 to 5 ppp</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-Nine 2,500 PPM (S), Sumagic 20-30 PPM (S)/Sumagic 0.5 PPM (D), Bonzi 2-4 PPM (D)</td>
<td>Aphids, Thrips, Leafminer, White Fly, Powdery Mildew, Pythium</td>
<td>Cool temperatures and high light levels will improve plant quality. Watch Fe deficiency.</td>
<td>6 to 7 weeks 1 ppp</td>
<td>7 to 9 weeks 1 ppp</td>
<td>9 to 12 weeks 3 to 4 ppp</td>
</tr>
<tr>
<td>B-Nine 2,500-3,000 PPM (S), Bonzi 2-4 PPM (D)</td>
<td>Spider Mites, Thrips, Botrytis, Tobacco Mosaic Virus</td>
<td>4 to 6 weeks 1 ppp</td>
<td>6 to 8 weeks 1 ppp</td>
<td>10 to 12 weeks 3 ppp</td>
<td></td>
</tr>
<tr>
<td>B-Nine 2,500 PPM (S), Sumagic 20-30 PPM (S)/Sumagic 0.5 PPM (D), Bonzi 2-4 PPM (D)</td>
<td>Aphids, Thrips, Leafminer, White Fly, Powdery Mildew, Pythium</td>
<td>Cool temperatures and high light levels will improve plant quality. Watch Fe deficiency.</td>
<td>6 to 7 weeks 1 ppp</td>
<td>7 to 9 weeks 1 ppp</td>
<td>9 to 12 weeks 3 to 4 ppp</td>
</tr>
<tr>
<td>B-Nine 1,500-2,000 PPM (S)</td>
<td>Thrips, Pythium, Powdery Mildew</td>
<td>Avoid over-watering.</td>
<td>5 to 6 weeks 1 ppp</td>
<td>6 to 8 weeks 1 ppp</td>
<td>10 to 12 weeks 3 to 4 ppp</td>
</tr>
<tr>
<td>generally not needed - keep dry to control vigor</td>
<td>Aphids, Fungus Gnats, Slugs, Botrytis, Pythium</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 2 ppp</td>
<td>9 to 12 weeks 4 to 5 ppp</td>
</tr>
<tr>
<td>B-Nine 2,500 PPM (S)</td>
<td>Mites</td>
<td>4 to 5 weeks 1 ppp</td>
<td>5 to 7 weeks 1 ppp</td>
<td>8 to 10 weeks 1 to 3 ppp</td>
<td></td>
</tr>
<tr>
<td>B-Nine 2,500 PPM (S), Sumagic 2-5 PPM (S)</td>
<td>Aphids, Spider Mites, Pythium</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 ppp</td>
<td>8 to 9 weeks 1 to 2 ppp</td>
<td>9 to 12 weeks 4 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 to 12°F/-13 to -11°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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<tr>
<td>Scaevola</td>
<td>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>Sedum tetractinum</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>Sedum</td>
<td>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>Sedum</td>
<td>Sedum cultivars</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>Mixed Combination</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>Verbena</td>
<td>Verbena 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>Verbena</td>
<td>Verbena 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>Verbena</td>
<td>Verbena 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.

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<th>10- to 12-inch (25- to 30-cm) Tubs or Baskets</th>
</tr>
</thead>
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<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 ppp</td>
<td>8 to 10 weeks, 1 to 2 ppp</td>
</tr>
<tr>
<td>none</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>
<tr>
<td>none</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>
<tr>
<td>none</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>
<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 ppp</td>
<td>5 to 6 weeks, 1 to 2 ppp</td>
</tr>
<tr>
<td>Very little or no PGR is necessary for Beats. If necessary, B-Nine 1,000 PPM/ Cycocel 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 ppp</td>
<td>6 to 8 weeks, 3 ppp</td>
</tr>
<tr>
<td>B-Nine 1,500-2,500 PPM (S), Sumagic 5-10 PPM (S), Cycocel 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 ppp</td>
<td>7 to 9 weeks, 1 ppp</td>
</tr>
<tr>
<td>B-Nine 1,500-2,500 PPM (S), Sumagic 5-10 PPM (S), Cycocel 1,000-2,000 (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 ppp</td>
<td>7 to 9 weeks, 1 ppp</td>
</tr>
</tbody>
</table>

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Phone (805) 481-7526
Fax (805) 431-2192

**DGI Propagators**
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Hudsonville, MI 49426
Phone (616) 669-0552
Fax (616) 669-2557

**Dickman Farms**
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Phone (315) 253-3030
Fax (315) 253-3377

**DS Cole Growers**
251 N. Village Road
Loudon, NJ 08343
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Fax (603) 783-9562

**Esbenshade’s Greenhouses, Inc.**
546 A East 28th
Division Highway
Lititz, PA 17543
Phone (717) 626-7000
Fax (717) 626-7302

**Fessier Nursery Co.**
1266 Monitor Mckee Road
NE Woodburn, OR 97071
Phone (503) 634-2448
Fax (503) 634-2866

**Gro’n Sell, Inc.**
320 Lower State Road
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