## Combos
Trixi® .........................................3
Culture Information ..........24

## Annuals
Bacopa ..................................26
Begonia .................................27
Bidens ..................................32
Bracteantha ........................30
Calceolaria ..........................33
Calibrachoa ..........................34
Convolvulus ........................41
Cuphea .................................41
Dahlia .................................42
Diascia .................................62
Euphorbia .............................41
Fuchsia .................................50
Geranium .........................51
Geranium Interspecific....57
Geranium Ivy .......................56
Geranium Zonal .................52
Glechoma ...........................64
Helichrysum ........................63
Heliotrope ...........................64
Impatiens Interspecific...68
Impatiens New Guinea...65
Lobelia .................................70
Lobularia .............................73
Lysimachia ...........................64
Mandevilla ...........................73
Muehlenbeckia ....................64
Osteosperum .....................74
Pericallis .............................87
Petunia .................................78
Phlox .................................88
Portulaca .............................91
Salvia .................................90
Sanvitalia ............................91
Scaevola .............................90
Sedum .................................64
Verbena ...............................92

## Perennials
Delosperma .......................108
Dianthus .............................98
Gaura ....................................109
Lavender ..............................110
Pot Carnation ........................98
(see Dianthus) ........................98

## Herbs
Herbs.....................................111

## Other Sections
Product Information..............................................116
Discontinued and Renamed Varieties ..................117
Flowering Only Terms & Conditions ..................118
Plant Protection & Licensing ..............................119
Terms & Conditions of Sale ..............................120
Rooting Guide ...........................................121
Finishing Guide ..........................................126
Licensed Root & Sell Stations ..........................Back Cover
Soaring Success
With This Sky-High Phenomenon

The Selecta One® universe of outstanding varieties is expanding! This includes stellar Sky petunias, exclusive double bicolor calibrachoa, on-the-rise phlox varieties and star-studded Trixi® combos.

This year, some sensational new sky-patterned varieties have joined our all-star petunia lineup, including icy lavender NEW Headliner™ Crystal Sky. Plus, the Main Stage™ series gets its first sky-patterned variety with bold NEW Glacier Sky. Selecta One petunias have never shined so brightly!

Another showstopper for 2021 is NEW MiniFamous® Neo Double PlumTastic, featuring a striking, double bicolor flower form that is available exclusively through Selecta One.

Plus, we’ve expanded our Gisele® Phlox series with four stunning varieties that keep on blooming through the Summer heat, and we’ve added seven new Trixi® combos that were selected for ease of production as well as consumer appeal.

With Selecta One, you can depend on superior quality, trialed and tested varieties, propriety breeding, world-class production and impressive selection – so you can buy and grow with confidence!
21 Upgraded Variety
Varieties noted as 21 represent a significant improvement compared to last year’s genetics. | Les variétés indiquées par la mention 21 représentent une amélioration significative comparativement à la génétique de l’année passée. | Las variedades marcadas con 21 indican un mejoramiento significativo, comparado con la genética del año anterior.

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. | Variétés convenant tout spécialement à la production de haute densité et aux cultures à rotation rapide. Port compact en dôme, vigueur facile à contrôler et floraison précoce permettant une culture et une expédition à haute densité. | Variedades especialmente adecuadas para producción de alta densidad y cultivos rápidos. Su hábito redondeado y compacto, vigor fácil de controlar y floración precoz permite envíos y producción de alta densidad.

Sun-Lover
Varieties are especially suitable for hot areas and growing in warmer temperatures. | Variétés qui conviennent particulièrement aux emplacements où il fait très chaud et à la culture sous des températures chaudes. | Variedades son especialmente apropiadas para áreas de calor y producción con temperaturas cálidas.

No-Pinch
Varieties mean savings on labor costs, less sanitary risk and shorter crop times. | Variétés qui permettent d’économiser à moyen terme sur les coûts de la main-d’œuvre et pour lesquelles le risque phytosanitaire et le temps de production sont moindres. | Variedades no requieren despuntes, por lo tanto se reducen tanto el costo de mano de obra, como los riesgos de sanidad, y el tiempo de cultivo.

Key to symbols

Vigor | Vigueur | Crecimiento
1 low | très compact | bajo
2 low-medium | compact | bajo-mediano
3 medium | moyen | mediano
4 medium-high | vigoureux | mediano-alto
5 high | très vigoureux | alto

Flowering Time | Floraison | Floración
1 very early | très précoce | precoz
2 early | précoce | temprana
3 standard | mi-saison | estándar

Heat Tolerance | Tolérance à la chaleur | Tolerancia al Calor
A excellent | excellente | excelente
B very good | trés bonne | muy buena
C good | bonne | buena

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.

On the cover: Headliner™ NEW Crystal Sky, NEW Electric Purple Sky and Night Sky®
A combo for any occasion

Trixi® combos from Selecta One offer a mixture of outstanding varieties in complimentary colors, flower forms and patterns that grow well together. Our mono combos demonstrate the strength and performance of a single class. This includes NEW Trixi Sky's the Limit all-petunia combo, featuring an out-of-this-world sky pattern!

### MONO COMBOS

<table>
<thead>
<tr>
<th>New/Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEW Double Date 21</td>
<td>10</td>
</tr>
<tr>
<td>NEW Double Take</td>
<td>18</td>
</tr>
<tr>
<td>NEW Sky's the Limit</td>
<td>20</td>
</tr>
<tr>
<td>NEW Twice As Nice</td>
<td>17</td>
</tr>
<tr>
<td>NEW Two to Tango (Duo)</td>
<td>14</td>
</tr>
<tr>
<td>Ball Game</td>
<td>23</td>
</tr>
<tr>
<td>Batting Eyes</td>
<td>13</td>
</tr>
<tr>
<td>Berry Daring</td>
<td>17</td>
</tr>
<tr>
<td>Bolero</td>
<td>8</td>
</tr>
<tr>
<td>Caribbean Cocktail</td>
<td>13</td>
</tr>
<tr>
<td>Daisy Falls</td>
<td>6</td>
</tr>
<tr>
<td>Double The Heat (Duo)</td>
<td>13</td>
</tr>
<tr>
<td>Flirtini</td>
<td>7</td>
</tr>
<tr>
<td>Gold &amp; Bold</td>
<td>10</td>
</tr>
<tr>
<td>Hotter than You Pink</td>
<td>15</td>
</tr>
<tr>
<td>Lollipop</td>
<td>11</td>
</tr>
<tr>
<td>Old Glory</td>
<td>23</td>
</tr>
<tr>
<td>On the Double (Duo)</td>
<td>21</td>
</tr>
<tr>
<td>Party Favor</td>
<td>19</td>
</tr>
<tr>
<td>Purple with a Purpose</td>
<td>21</td>
</tr>
<tr>
<td>Starspinner (Duo)</td>
<td>17</td>
</tr>
<tr>
<td>Sunset</td>
<td>13</td>
</tr>
<tr>
<td>Wild Berry</td>
<td>19</td>
</tr>
<tr>
<td>Written in the Stars (Duo)</td>
<td>7</td>
</tr>
<tr>
<td>You PINKed My Interest</td>
<td>15</td>
</tr>
</tbody>
</table>
Multi-species combos showcase an outstanding color and texture contrast that is still easy to produce. Our expanded offering this year includes top-selling varieties, as well as Selecta One-exclusive combos with double bicolor blooms. There’s something here for everyone!

**MULTI-SPECIES COMBOS**

<table>
<thead>
<tr>
<th>New Variety</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Chemical Attraction</td>
<td>17</td>
</tr>
<tr>
<td>New Lip Sync</td>
<td>11</td>
</tr>
<tr>
<td>Blueberry Parfait®</td>
<td>22</td>
</tr>
<tr>
<td>Cajun Flare</td>
<td>8</td>
</tr>
<tr>
<td>Charged Up Cherry!</td>
<td>11</td>
</tr>
<tr>
<td>Cherry Kiss</td>
<td>15</td>
</tr>
<tr>
<td>Crazy for Crayons</td>
<td>9</td>
</tr>
<tr>
<td>Daisy Dance</td>
<td>6</td>
</tr>
<tr>
<td>Double Delight</td>
<td>9</td>
</tr>
<tr>
<td>Flamingo Feather</td>
<td>6</td>
</tr>
<tr>
<td>Geisha Girl</td>
<td>15</td>
</tr>
<tr>
<td>La Bomba</td>
<td>9</td>
</tr>
<tr>
<td>Liberty Bell</td>
<td>23</td>
</tr>
<tr>
<td>Love Song</td>
<td>11</td>
</tr>
<tr>
<td>Night Watch</td>
<td>8</td>
</tr>
</tbody>
</table>

**MULTI-SPECIES COMBOS**

<table>
<thead>
<tr>
<th>Variety</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nightfall</td>
<td>21</td>
</tr>
<tr>
<td>Out of the Blue</td>
<td>7</td>
</tr>
<tr>
<td>Pop the Bubbly</td>
<td>9</td>
</tr>
<tr>
<td>Popular Demand</td>
<td>6</td>
</tr>
<tr>
<td>Prime Time</td>
<td>8</td>
</tr>
<tr>
<td>Raspberry Sorbet</td>
<td>16</td>
</tr>
<tr>
<td>Salt Water Taffy</td>
<td>19</td>
</tr>
<tr>
<td>Spring Valley</td>
<td>23</td>
</tr>
<tr>
<td>Starlight Starbright</td>
<td>22</td>
</tr>
<tr>
<td>Strawberry Shortcake</td>
<td>14</td>
</tr>
<tr>
<td>Treasure Chest</td>
<td>21</td>
</tr>
<tr>
<td>Twinkle Star</td>
<td>7</td>
</tr>
<tr>
<td>Walk on a Cloud</td>
<td>22</td>
</tr>
<tr>
<td>Who Knew Orleans</td>
<td>12</td>
</tr>
</tbody>
</table>
A splash of violet for the early season

**Flamingo Feather**
- Big Falls™ Pearl Bacopa
- Piccadilly™ Dark Salmon Diascia
- Daisy Falls™ Purple Osteospermum

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

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

**Daisy Falls**
- Daisy Falls™ Pink Osteospermum
- Daisy Falls™ Purple Osteospermum
- Daisy Falls™ White Amethyst Osteospermum
**Twinkle Star**
Big Falls™ Pearl Bacopa  
Namid™ Early Yellow Bidens  
MiniFamous® Neo Dark Blue Calibrachoa  

- 4 2 1 B

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

- 4 2 1 B

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

- 3 1 B

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

- 3 2 B
Mid-season spectrum of primary colors

Prime Time
Namid™ Special Yellow Bidens
Lascar™ Dark Red Verbena
Lascar™ Dark Violet Verbena

Cajun Flare
Namid™ Early Yellow Bidens
Starlet™ Lavender Star Petunia
Lascar™ Burgundy Verbena

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

Night Watch
Namid™ Special Yellow Bidens
Starlet™ Velvet Petunia
Blues™ Red Verbena
Crazy for Crayons
Namid™ Early Yellow Bidens
MiniFamous® Neo Dark Blue Calibrachoa
Lascar™ Burgundy Verbena
4 2 B

La Bomba
Namid™ Early Yellow Bidens
MiniFamous® Neo Dark Blue Calibrachoa
Headliner™ Red Petunia
4 2 B

Double Delight
MiniFamous® Uno Double Lemon Calibrachoa
Magadi™ White Lobelia
Lascar™ Burgundy Verbena
3 1 B

TOP SELLER
Pop the Bubbly
Namid™ Early Yellow Bidens
Starlet™ Yellow Petunia
Lascar™ White Verbena
3 2 B
Single and double, bright-shining blooms

**Double Date 21**
- MiniFamous® Neo Double Dark Blue Calibrachoa
- MiniFamous® Neo Double Deep Yellow Calibrachoa
- MiniFamous® Uno Double Red Calibrachoa

**Gold & Bold**
- MiniFamous® Neo Dark Blue Calibrachoa
- MiniFamous® Neo Deep Yellow Calibrachoa
- MiniFamous® Neo Purple Calibrachoa
Love Song
MiniFamous® Neo Double Deep Yellow Calibrachoa
Headliner™ Lipstick Petunia
Fairy™ Blue Scaevola

TOP SELLER
Charged Up Cherry!
MiniFamous® Uno Double Lemon Calibrachoa
MiniFamous® Uno Raspberry Star Calibrachoa
Blues™ Magenta+Eye Verbena

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

Lollipop
MiniFamous® Neo Blue Calibrachoa
MiniFamous® Neo Deep Yellow Calibrachoa
MiniFamous® Neo Pink Calibrachoa
Feel the heat with these warm tones

TOP SELLER

Who Knew Orleans

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

V 3  S  2  B
Double The Heat
MiniFamous® Neo Double OrangeTastic Calibrachoa
MiniFamous® Uno Double Red Calibrachoa

TOP SELLER
Caribbean Cocktail
MiniFamous® Neo Blue Calibrachoa
MiniFamous® Neo Orange+Red Eye Calibrachoa
MiniFamous® Neo Vampire Calibrachoa

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

Sunset
MiniFamous® Neo Deep Orange Calibrachoa
MiniFamous® Neo Vampire Calibrachoa
MiniFamous® Uno Yellow Calibrachoa
Inspire romance with red and pink combos

Two to Tango
MiniFamous® Neo Double Purple Calibrachoa
MiniFamous® Uno Double PinkTastic Calibrachoa

Strawberry Shortcake
Big Falls™ White Bacopa
MiniFamous® Neo Light Pink+Eye Calibrachoa
Lascar™ Burgundy Verbena
You PINKed My Interest

Gisele® Hot Pink Phlox
Gisele® Pink Phlox
Gisele® White Phlox

TOP SELLER

Cherry Kiss

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

TOP SELLER

Geisha Girl

MiniFamous® Neo Salmon PInk+Eye Calibrachoa
Headliner™ Red Petunia
Lascar™ Red Rose Verbena

Hotter than You Pink

Headliner™ Lipstick Petunia
Headliner™ Pink Vein Petunia
Headliner™ White Petunia
Berry hues create a sweet presentation

TOP SELLER
Raspberry Sorbet
MiniFamous® Neo White Calibrachoa
Starlet™ Magenta Star Petunia
Blues™ Magenta+Eye Verbena

SelectaNorthAmerica.com or 800 879-2255
**Twice As Nice**
*MiniFamous® Neo* Double Dark Blue Calibrachoa  
*MiniFamous® Neo* Double Purple Calibrachoa  
*MiniFamous® Uno* Double Red Calibrachoa

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

**Chemical Attraction**
*MiniFamous® Neo* White Calibrachoa  
*Magadi™* Electric Purple Lobelia  
*NEW Headliner™* Electric Purple Sky Petunia

**Star spinner**
*MiniFamous® Uno* Pink Star Calibrachoa  
*MiniFamous® Uno* Violet Star Calibrachoa
Berry hues *continued*

**NEW**

**Double Take**
- *MiniFamous® Uno* Double Dark Blue Calibrachoa
- *MiniFamous® Uno* Double PinkTastic Calibrachoa
- *MiniFamous® Uno* Double Red Calibrachoa

4 2 B

SelectaNorthAmerica.com or 800 879-2255
Wild Berry
MiniFamous® Neo Blue Calibrachoa
MiniFamous® Neo Purple Calibrachoa
MiniFamous® Neo White Calibrachoa

Party Favor
MiniFamous® Neo Blue Calibrachoa
MiniFamous® Neo Pink Calibrachoa
MiniFamous® Neo White Calibrachoa

Salt Water Taffy
MiniFamous® Neo Salmon Pink+Eye Calibrachoa
Starlet™ Pink Lemonade Petunia
Blues™ Lavender+Eye Verbena
A touch of white adds brilliance to combos

Sky's the Limit
Headliner™ Night Sky® Petunia
Headliner™ Sky Blue Petunia
Headliner™ White Petunia

NEW
**Purple with a Purpose**

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

**On the Double**

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

**Treasure Chest**

- Magadi™ Electric Purple Lobelia
- Starlet™ Lavender Star Petunia
- Lascar™ White Verbena

**TOP SELLER**

- Nightfall
  - MiniFamous® Neo Blue Calibrachoa
  - Starlet™ Lavender Star Petunia
  - Blues™ Lavender+Eye Verbena
Touch of white continued

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

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

Walk on a Cloud
Magadi™ Basket White Lobelia
Starlet™ White Petunia
Lascar™ White Verbena
Star-spangled mixes for Summer

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

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

Spring Valley
MiniFamous® Neo Blue Calibrachoa
MiniFamous® Neo Lava+Red Eye Calibrachoa
Magadi™ Basket White Lobelia

Ball Game
Headliner™ Blue Petunia
Headliner™ Red Petunia
Headliner™ White Petunia
Starting with TrixiLine

After their arrival, open the boxes and plant TrixiLine® as soon as possible. TrixiLine® 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: TrixiLine 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 2-3, and for 12-inch baskets, use 3-4 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 TrixiLine liners. Thoroughly clean and disinfect the area, and use only new pots and fresh, high-quality media. If you notice any problems upon arrival, make sure to notify your supplier immediately.

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

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

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

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

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

Humidity: Below 70%.

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

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

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

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

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

PGR: Sprays with 2,500 PPM B-Nine or 5-20 PPM Sumagic can start about a week after transplant. Drenching TrixiLine 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 one or two 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. See our “PGR Strategies for Trixi” tech sheet on SelectaNorthAmerica.com for more information about plant growth regulation.

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

Excellent branching, featuring large blooms with a short crop time.

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

Trixi Blueberry Parfait
featuring
Big Falls Pearl Bacopa
MiniFamous Neo Light Blue Calibrachoa
Blues Light Pink+Eye Verbena
See page 4 for Trixi mixes.
Mistral® Begonia
*Begonia boliviensis*

Excellent branching and trailing habit make Mistral the BEST begonia for hanging baskets! Large, eye-catching flowers mean lots of impulse sales. This heat and drought-tolerant series requires no deadheading. Plus, it works great in large pots and mixed containers, too.

**Height:** 10 to 12 in. (25 to 30 cm)
**Spread:** 14 to 16 in. (36 to 41 cm)
Mistral® Double Orange Begonia

*Begonia boliviensis*

This *boliviensis* cross offers exciting, semi-double orange blooms on a trailing habit.

**Height:** 10 to 12 in. (25 to 30 cm)
**Spread:** 14 to 16 in. (36 to 41 cm)
**Compact Double Apricot Begonia**

*Begonia boliviensis*

Compact, upright *boliviensis* provides dependable production and strong performance in small pots. Attractive, well-branched plants feature lots of two-toned blooms and dark, serrated foliage.

- **Height:** 6 to 8 in. (15 to 20 cm)
- **Spread:** 10 to 12 in. (25 to 30 cm)

**Compact Marshmallow Begonia**

*Begonia cultivars*

Compact *boliviensis* cross provides dependable production and strong performance in small pots. Attractive, well-branched plants feature lots of two-toned blooms.

- **Height:** 6 to 8 in. (15 to 20 cm)
- **Spread:** 10 to 12 in. (25 to 30 cm)
Mohave™ Bracteantha
Bracteantha bracteata

This bracteantha spans the seasons from Spring to Fall. Mohave’s superior branching and mounding habit really hold up at retail. Big, brilliant flowers make Mohave perfect for mixed containers and landscaping.

Height: 14 to 16 in. (36 to 41 cm)
Spread: 14 to 16 in. (36 to 41 cm)
SelectaNorthAmerica.com or 800 879-2255

- **Apricot**
- **Basket Yellow**
- **Dark Red**
- **Orange**
- **Purple Red**
- **White**
- **Yellow**
Namid™ Bidens
Bidens ferulifolia

This collection fills all your bidens needs, with strong, well-branched varieties that provide controlled growth and long flower performance.

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

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

**Early Yellow**
Spreading habit; best for combos.

**Special Yellow**
Features an upright habit; a favorite in Northern markets.

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**Trixi La Bomba**

featuring
Namid Early Yellow Bidens
MiniFamous Neo Dark Blue Calibrachoa
Headliner Red Petunia

See page 4 for Trixi mixes.

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SelectaNorthAmerica.com or 800 879-2255
**Calynopsis™ Calceolaria**

*Calceolaria hybrida*

Grow these unique, colorful varieties as premium potted floral products for early-season sales. Calynopsis works well in many pot sizes. 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)

SelectaNorthAmerica.com or 800 879-2255 33CALCEOLARIA
Calibrachoa

Selecting the perfect calibrachoa has never been easier, thanks to the MiniFamous® collection that includes early, compact Uno and medium-vigor Neo to cover all your program needs. Choose from a full selection of classic core colors and vibrant patterns. Plus, this assortment features our novel varieties — including award-winning Uno Double PinkTastic and NEW Neo Double PlumTastic, boasting a unique double bicolor flower form that is exclusive to Selecta One! Mix and match these uniform varieties in colorful combos for big impact at retail.

NEW Trixi Two to Tango
featuring
MiniFamous Neo Double Purple Calibrachoa
MiniFamous Uno Double PinkTastic Calibrachoa
See page 4 for Trixi mixes.
Neo
Violet Ice

Uno
Pink Strike
MiniFamous®
Uno Calibrachoa
*Calibrachoa hybrida*

An early-to-finish, medium-compact calibrachoa with uniform flower timing across the series. It grows well in quart and gallon containers, but also thrives in hanging baskets as part of Trixi combos. This series has the most diversity on the market, featuring 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)

- Dark Blue
- Pink
- Pink Strike
- Pink Star
- Raspberry Star
- Red
- Violet Star
- White
- Yellow
- Yellow+Red Vein

[Images of flowers and compact icon]

SelectaNorthAmerica.com or 800 879-2255
MiniFamous® Neo Calibrachoa

Calibrachoa cultivars

For a uniform, semi-trailing habit, along with medium vigor, and attractive flowering time, try MiniFamous Neo. It features large, single and double blooms; exclusive double, bicolor blooms; and a wide range of classic colors. Ideal for big baskets.

Height: 8 to 12 in. (20 to 30 cm)
Spread: 12 to 15 in. (30 to 38 cm)

Double PlumTastic

Double OrangeTastic

Double Deep Yellow

Double OrangeTastic

Double Dark Blue
V 3 3  A
Double Amethyst

V 3 3  A
Double Purple

V 3 3  A
Double Silver Blue

V 3 3  A
Double Lemon

V 3 3  B
Double Pink

V 3 1  A
Deep Orange

V 4 1  A
Dark Blue

V 2 1  B
Light Pink+Eye

V 2 1  B
Lava+Red Eye

V 3 1  B
Violet Ice

V 3 2  B
Light Pink

V 3 3  A
Deep Yellow

Neo continues on page 40
MiniFamous®
Neo Calibrachoa  Continued

Light Blue
Pink
Orange+Red Eye
Purple
Blue
Yellow
Salmon Pink+Eye
Vampire
White
White+Yellow Eye
Early Blue Convolvulus

*Convulvulus sabatius*

Drought and heat tolerant! Strategic blue blooms with a mounded habit make exciting combos.

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

Prime White Convolvulus

*Convulvulus sabatius*

Easy care and drought tolerant. Attractive white blooms complement mixed combos.

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

Cuphea

*Cuphea hyssopifolia*

Also known as Mexican heather, *Cuphea hyssopifolia* has fine, fernlike foliage and a 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)

Loreen™ White Euphorbia

*Euphorbia hypericifolia*

Excellent branching and dense flowering make an eye-catching display at retail and in finished containers. Loreen is ideal for gallons and larger mixes.

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

Everything you are looking for in a dahlia assortment, all in one place. Selecta One is proud to offer such a diverse selection across four series, including compact Dahlietta® for quart pots; medium, dark-leaf City Lights™ and medium, green-leaf Dalaya® for 2.5-qt. pots and the garden; and the large, double-flowered Venti™ series to fill your gallons. With mesmerizing colors, exciting patterns and unique flower forms — all backed by our superior breeding and a strong, reliable supply chain — you can count on Selecta One to get you the best quality cuttings where and when you need them.

NEW Dahlietta Candy
NEW Dalaya Raspberry

Compact
Dahlietta®
page 44

Medium
City Lights™
page 45
Dalaya®
page 46

Large
Venti™
page 48
Venti
Passion Fruit

City Lights
Golden Yellow
Dahlietta® Dahlia
*Dahlia pinnata*

Dahlietta flowers in as little as 7 weeks for quick turns. Plus, this highly uniform series works best in small quart pots for early sales. More colors, patterns and improvements create a 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)

- **Candy**
- **Anna**
- **Louise**
- **Patty**
- **Blanca**
- **Coby**
- **Lily**
- **Paula**
- **Emily**
- **Rachel**
- **Tessy**
- **Julia**

SelectaNorthAmerica.com or 800 879-2255
City Lights™ Dahlia

*Dahlia hybrida*

Dark-leafed garden dahlia comes from Dalaya breeding, so it is a powerhouse in the garden. The dark leaf makes it pop with contrast. Its bold, bicolor blooms last all season long. This series is a magnet for butterflies and birds. Dark-leafed varieties are known for having excellent color and good branching.

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

*Spread:* 12 to 14 in. (30 to 36 cm)
Dalaya® Dahlia
*Dahlia hybrida*

Green-leaf, garden dahlia features big blooms and exotic bicolors that charm with awesome retail appeal. This series is early to flower, slow to fade and is known for having excellent garden performance that beats the competition across all varieties. Plus, Dalaya is well-branched with an exceptional habit, ideal for 2.5-qt. and larger pots.

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

**Fireball**
- Variety: Fireball
- Colors: Purple+White
- Size: Medium

**Dark Red+White**
- Variety: Dark Red+White
- Size: Medium

**Purple+White**
- Variety: Purple+White
- Size: Medium
Royal Purple

Venti™ Dahlia

Dahlia pinnata

A uniform, vigorous series of double-flowered dahlias that brings a broad range of core colors and exciting bicolors to the market. Venti is a series that fills the gallon and larger dahlia needs by putting on a large flower display, and it provides a more controlled habit than the competition. Sourced from a worldwide-proven dahlia cutting farm, Venti varieties have been trialed and grown throughout Europe and North America with excellent results.

Height: 16 to 18 in. (41 to 46 cm)
Spread: 14 to 16 in. (36 to 41 cm)
Golden Yellow
Lemon
Light Rose
Passion Fruit
Pink+White Eye
Red+White
Royal Purple
Tequila Sunrise
White
Bellinto™ Fuchsia

*Fuchsia cultivars*

Day-neutral series of free-flowering fuchsia is a breeze to grow. Use trailing Bellinto in larger pots and baskets.

**Height:** 8 to 16 in. (20 to 41 cm)

**Spread:** 10 to 14 in. (25 to 36 cm)
Selecta One offers a well-rounded geranium selection produced 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 and hanging baskets. Plus, our pot-sizing icons will help you find which sizes work best for your program.
Moonlight™ Zonal Geranium
Pelargonium x hortorum

This dark foliage, compact and uniform series for the grower is the solution for pot-tight production and bench runs. Early flowering, with three to four large flowers at first flush, it provides a superior display of upright plants at retail. Perfect for quart and gallon programs.

Height: 10 to 12 in. (25 to 30 cm)
Spread: 10 to 12 in. (25 to 30 cm)
SelectaNorthAmerica.com or 800 879-2255

GERANIUM  53
Sunrise™ Zonal Geranium

*Pelargonium x hortorum*

This large-flowered series features early blooms on a green-leaf, medium-vigor plant, great for bench runs! With a super color range and upright habit, Sunrise is perfect for your larger basket and gallon container programs.

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

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**Brilliant Red**

**Raspberry Eye**

**Red**

**Fuchsia**

**Light Salmon**

**Hot Pink**

**Lavender+Red Eye**

**Violet**

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

*Pelargonium peltatum*

Early flowering makes for quick turns, and excellent oedema resistance results in clean foliage at retail. This double-flowered ivy geranium with a medium-vigor, well-branched, trailing habit is terrific in baskets.

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

![Pink Ice](Image)
![Dark Red 21](Image)

Amethyst

Blue

Brilliant Red

Candy Cane®

Scarlet Red

Dark Burgundy

Light Pink

Pink

Sweet Candy

White
Marcada™ Interspecific Geranium

Pelargonium cultivars

This strong geranium series looks like an ivy geranium but is more heat tolerant, has better flower retention and is less sensitive to oedema. Works best in medium baskets.

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

- Dark Red
- Magenta
- Pink
- Pink+Purple Eye
- Deep Coral
- White
- Dark Red, Magenta and Pink
Super Moon Red Zonal Geranium

*Pelargonium x hortorum*

This stunning, large-flowered zonal geranium features dark red blooms on a very strong, vigorous plant. It has unique, very dark stems that provide contrast. Heat-tolerant variety is perfect for the landscape.

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

**Spread:** 10 to 14 in. (25 to 36 cm)
Now Available

Balcon Ivy Geranium

*Pelargonium peltatum*

A sea of colorful, large, single flowers cascades over the edge of large hanging baskets and window boxes on this heat-tolerant, trailing ivy. It is naturally self-cleaning to keep gardens looking fresh long into the Summer.

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

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

SelectaNorthAmerica.com or 800 879-2255

**Ice Dance Pink**

**Light Purple**

**Red**

**Shocking Pink**

**Pink**

Red, Pink and Light Purple
Now Available
Decora Ivy Geranium

*Pelargonium peltatum*

Cascades of vibrantly colored, large, single blooms spill out of large hanging baskets and window boxes. Heat-tolerant, trailing ivy features unique variegated foliage. Plus, it is naturally self-cleaning, so it keeps plants looking fresh all Summer long.

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

**Spread:** 14 to 24 in. (36 to 61 cm)
Glacier White Ivy Geranium
Pelargonium peltatum

Popular Glacier White stands up to the heat! This single-flowered ivy geranium offers 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)
Piccadilly™ Diascia

*Diascia cultivars*

Extended color range in an early-flowering series. Compact plants have large flowers that make a lovely display on short stems. Offers best performance in cool weather.

**Height:** 7 to 9 in. (18 to 23 cm)

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

**Trixi Flamingo Feather**

featuring

- Big Falls Pearl Bacopa
- Piccadilly Dark Salmon Diascia
- Daisy Falls Purple Osteospernum

See page 4 for Trixi mixes.
Silver Helichrysum

*Helichrysum italicum*

Silver is a dwarf curry helichrysum series that provides superior branching, drought tolerance and offers great performance in the garden. The soft, silver foliage makes for great accent plants, and can carry the striking color in mixed containers as well. Low maintenance and not overly aggressive, this naturally branched series is a top choice in the marketplace.

**Height:** 8 to 14 in. (20 to 36 cm)
**Spread:** 6 to 14 in. (15 to 36 cm)
**USDA Hardiness Zone:** 7a to 7b

SelectaNorthAmerica.com or 800 879-2255
Variegata Glechoma
*Glechoma hederacea*
Creeping Charlie is an attractive, variegated vining perennial. It’s an excellent component in mixed containers, but also works well as a ground cover.

- **Height:** 4 to 6 in. (10 to 15 cm)
- **Spread:** 10 to 12 in. (25 to 30 cm)
- **USDA Hardiness Zone:** 4b to 9a

Goldilocks Lysimachia
*Lysimachia nummularia*
Low-care, trailing plant has lime green leaves that turn iridescent in the sun. Self-cleaning. Recommended for use in mixed containers. Temperate perennial.

- **Height:** 2 to 4 in. (5 to 10 cm)
- **Spread:** 12 in. (30 cm)
- **USDA Hardiness Zone:** 3a to 10b

Marino™ Heliotrope
*Heliotropium arborescens*
Superbly scented! Selected for easy shipping of unrooted and rooted cuttings, these easy-to-grow varieties have an upright habit.

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

Now Available
Muehlenbeckia
*Muehlenbeckia*
This spiller foliage plant features glossy, dark green, round leaves and dark stems. It works great in mixed combos, as an accent plant or as a groundcover — adding a versatile, textural element for higher value. Plus, low-maintenance, drought-tolerant Muehlenbeckia holds up at retail.

- **Height:** 4 to 6 in. (10 to 15 cm)
- **Spread:** 18 to 24 in. (46 to 61 cm)

Now Available
Gold Mound Sedum
*Sedum mexicanum*
This chartreuse plant produces small, yellow flowers from late Spring through Summer. A low-maintenance, drought-tolerant sedum for the container, groundcover or rock garden. Adapts its size to spaces shared with other plants. Stays small in quart pots; fills large pots.

- **Height:** 12 to 15 in. (30 to 38 cm)
- **Spread:** 12 to 16 in. (30 to 41 cm)
ImPower™ New Guinea Impatiens
*Impatiens hawkeri*

Fast-to-finish and highly programmable – for quick-turn success!

This fast-to-finish, highly programmable New Guinea ensures quick-turn success. Uniform series has all colors flowering within one week. By choosing ImPower, growers can reliably produce high-density pots and packs that will consistently flower early and deliver superior show. Plus, this series includes a full range of exciting solids and bicolors on large blooms. Best in small containers.

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

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

**V2** 1 B

**NEW**

**COMPACT**

**HD**

**NO PINCH**

**Pink Frost**
(green foliage)

**Lavender**
(green foliage)

**Orange**
(green foliage)

**Violet**
(green foliage)

**Purple Blue**
(green foliage)

**Red Flame**
(green foliage)

**Salmon**
(green foliage)

**White**
(green foliage)

**White Pink Eye**
(dark green foliage)

**Dark Red**
(dark green foliage)

SelectaNorthAmerica.com or 800 879-2255
ColorPower™ New Guinea Impatiens

*Impatiens hawkeri*

Count on ColorPower for a great range of colors, including bright novelties. Outstanding habit and flower presentation in medium to large pots and baskets with big, vibrant blooms that light up the shade.

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

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

- **Cerise Frost** (green foliage)
- **Dark Pink** (green foliage)
- **Magenta Frost** (green foliage)
- **Orchid** (green foliage)
- **Purple Blue** (green foliage)
- **Red Flame** (green foliage)
- **Rose** (green foliage)
- **Salmon Pink** (green foliage)

**NEW**

- **Orange** (green foliage)
- **Red** (green foliage)

SelectaNorthAmerica.com or 800 879-225566 IMPATIENS
Peach Frost (green foliage)

Violet (green foliage)

White (green foliage)

Coral Flame (green foliage)

Dark Pink Flame (dark green foliage)

Dark Red (dark green foliage)

Lavender Flame (dark green foliage)

Light Pink+Eye (dark green foliage)

Orange Flame (dark green foliage)

White Red Flame (dark green foliage)
Bounce™ Interspecific Impatiens

*Impatiens hawkeri*

Best for the shade, Bounce boasts plenty of color and excellent garden performance. Great branching, low maintenance and fast flowering, Bounce offers proven performance in shade and heat, plus downy mildew resistance.

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

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

**No Pinch**

**Height:**

- Bright Coral: 3 2 A
- Cherry: 3 2 A
- Pink Flame: 3 2 A
- Violet: 3 2 A
- White: 3 2 A

SelectaNorthAmerica.com or 800 879-2255

68 IMPATIENS
Big Bounce™ Interspecific Impatiens

*Impatiens hawkeri*

Like Bounce, only bigger! Vigorous series is ideal for landscape use.

**Height:** 20 to 30 in. (51 to 76 cm)

**Spread:** 20 to 36 in. (51 to 91 cm)

Lavender Flame

Lilac

Pink

White

Red

Cherry

Selected North America.com or 800 879-2255 69 IMPATIENS
Lobelia

Selecta One is your number one source for lobelia, with the comprehensive, heat-tolerant 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

Upright and densely branched, “Compact” lives up to its name. Ideal for quarts and 4.5-in. (11-cm) pots.

Height: 6 to 10 in. (15 to 25 cm)
Spread: 8 to 12 in. (20 to 30 cm)

Blue
Blue+Eye
Purple
Dark Blue
White

SelectaNorthAmerica.com or 800 879-2255
Magadi™ Lobelia

Lobelia cultivars

The entire Magadi line is known for its heat tolerance. The nice mounding of Magadi works well in pots or the landscape. Best for 1-gallon and patio pots. Sun lover.

Height: 6 to 10 in. (15 to 25 cm)
Spread: 8 to 12 in. (20 to 30 cm)

Magadi Blue

Magadi™ Basket Lobelia

Lobelia cultivars

Vigorous and floriferous varieties feature lovely trailing blooms. Best for 12 to 14-in. (30 to 36-cm) baskets.

Height: 6 to 10 in. (15 to 25 cm)
Spread: 8 to 12 in. (20 to 30 cm)

Magadi Basket Dark Blue

Magadi Basket Dark Purple

Magadi Basket White
Featherlight White Lobularia
*Lobularia maritima*

A good variety of lobularia that offers a shippable cutting for use in different sizes of containers. This is a great choice for growers, allowing them to tailor their needs for large containers and single-species baskets. Provides a sweet fragrance on the retail shelf and in the home garden.

*Height:* 4 to 6 in. (10 to 15 cm)
*Spread:* 12 to 16 in. (30 to 41 cm)

Dundee Mandevilla
*Mandevilla sanderi*

These very strong plants with vivid, non-fading flowers are available as unrooted or callused cuttings. With Dundee, growers can produce mandevilla cost-effectively and with different production options, providing top-performing, intensely colored plants.

*Height:* 24 to 48 in. (61 to 122 cm)
*Spread:* 8 to 12 in. (20 to 30 cm)

Magnetica™
Dark Red Mandevilla
*Mandevilla sanderi*

An outstanding mandevilla for the Selecta One assortment! Magnetica provides a more vigorous and climbing habit with larger, non-fading blooms compared to Dundee.

*Height:* 24 to 48 in. (61 to 122 cm)
*Spread:* 14 to 18 in. (36 to 46 cm)
Daisy Falls™ Osteospermum
Osteospermum ecklonis

Perfect for early-Spring baskets! Daisy Falls is a breakthrough series that grows and blooms with traditional osteospermum on a more vigorous, trailing frame. Ideally suited for combos as well as single-variety applications. Continues to perform longer into the season. Will tolerate inclement early-Spring conditions with excellent shippability and shelf life at retail.

**Height:** 8 to 12 in. (20 to 30 cm)
**Spread:** 20 to 24 in. (51 to 61 cm)

![Daisy Falls flowers]

**Varieties:**
- **Pink**
- **Purple**
- **White Amethyst**

**Trix Daisy Dance**
featuring
- MiniFamous Neo Orange+Red Eye Calibrachoa
- Daisy Falls Purple Osteospermum
- Lascar Mango Orange Verbena

See page 4 for Trixi mixes.
4D™ Osteospermum

Osteospermum hybrid

The next dimension in double osteos! 4D stays open 24/7 like its predecessor 3D, with improved branching for masses of blooms and better series uniformity. You can easily grow 4D right alongside your other osteos for an early-season lineup that’s sure to be successful.

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

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

SelectaNorthAmerica.com or 800 879-2255
Zion™ Osteospermum
Osteospermum ecklonis

Inspired by the colors of Zion National Park in Utah, this collection features distinctive, novel colors. Large flowers on plants with excellent branching and full, mounded habits have great consumer appeal. Zion includes FleuroStar Award Winner Purple Sun, featuring a vibrant orange color that transitions into a deep purple ring surrounding the heart. Available as callused cuttings.

Height: 16 to 20 in. (41 to 51 cm)
Spread: 16 to 24 in. (41 to 61 cm)

Purple Sun

Morning Sun

Magic Yellow

Copper Amethyst

Blue Denim

Pure Yellow

Red
**FlowerPower™ Spider Osteospernum**
*Osteospernum ecklonis*

These unique and attractive flower shapes fit perfectly with the FlowerPower series. Nice upright habit. Available as callused cuttings.

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

**FlowerPower™ Compact Osteospernum**
*Osteospernum ecklonis*

Compact, upright, uniform series with brilliant colors on large flowers. FlowerPower Compact is early-to-flower and features medium, easy-to-control vigor and excellent branching. Best grown under cool conditions and 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)
Outstanding petunias and Selecta One go hand in hand. This year, we’re showcasing our expanded lineup of stellar Sky petunias, all featuring uniquely patterned blooms with flecks of white against vibrant colors that resemble a starry sky. This assortment not only offers thrilling patterns and flower forms, but it is also available in a wide variety of pot sizes to fill your entire petunia program with ease.

NEW Main Stage
Glacier Sky

Starlet™
Salmon Red Vein

Headliner™
page 82

Main Stage™
page 84

SweetSunshine™
page 86
NEW Headliner
Crystal Sky

NEW Headliner
Electric Purple Sky

Headliner
Night Sky®

SelectaNorthAmerica.com or 800 879-2255
Starlet™ Petunia
Petunia cultivars

As grower friendly as it gets! Compact and controlled, with well-matched timing, vigor and habit. Early to flower and fast to finish, this one’s at home in small pots, baskets and combos.

Height: 8 to 10 in. (20 to 25 cm)
Spread: 12 to 20 in. (30 to 51 cm)

Blueberry Vein
Velvet

Magenta Star

SelectaNorthAmerica.com or 800 879-2255
Headliner™ Petunia

*Petunia cultivars*

Headliner is quickly becoming growers’ first choice. This medium-vigor, mounded petunia is early flowering for a fast finish and features a dramatic color range. The result: eye-catching finished baskets and pots with large blooms!

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

**Spread:** 20 to 30 in. (51 to 76 cm)

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**V 3 B**

- **Electric Purple Sky**
- **Crystal Sky**

**V 4 B**

- **Night Sky®**
- **Pink Sky**
- **Starry Sky Burgundy**
- **Dark Saturn**

**V 2 B**

- **Lipstick**
- **Blueberry Swirl**
- **Raspberry Swirl**
- **Pink Vein**
Dark Violet Picotee 21
White Rose Vein
Raspberry Star
Red Star
Rose Star
Blue
Electric Purple
Red
Sky Blue
White
Yellow
Main Stage™ Petunia

*Petunia cultivars*

Our most vigorous, trailing petunia line! Features excellent garden and in-ground performance, while still looking great on balconies. The eye-catching colors in the Main Stage series will boost retail sales and attract customers to endcaps of trailing, full hanging baskets.

**Height:** 12 to 16 in. (30 to 41 cm)
**Spread:** 24 to 36 in. (61 to 91 cm)
Glacier Sky  
Blueberry  
Hot Pink  
Pink  
Pink Vein  
Violet  
Purple  
Red  
Violet Picotee  
White
SweetSunshine™ Petunia

Petunia cultivars

Durable, fully double blooms stand up to tough weather. Well-branched, medium-vigor plants have a semi-trailing habit that looks great in hanging baskets. Series offers a range of unique colors in this popular flower form.

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

- **Burgundy**
- **Honeydew**
- **Magenta**
- **Light Pink**
- **Provence**
- **Light Pink**

SelectaNorthAmerica.com or 800 879-2255
Senetti® Pericallis

*Senecio x hybrida*

The low-maintenance Senetti series is a great addition to early-Spring assortments, thriving in cool temperatures. This durable pericallis will hold up at retail and offers fast sell-through. Plus, it fills a larger pot size than many other early-Spring crops. Heads will turn at retail with masses of vivid blooms above rounded, compact foliage. Senetti offers superior garden performance, with strong stems, excellent vigor and the ability to withstand a range of weather conditions.

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

**Varieties:**
- **Blue Bicolor**
- **Deep Blue**
- **Magenta**
- **Magenta Bicolor**
- **Cobalt Blue**
- **White**

SelectaNorthAmerica.com or 800 879-2255 87PERICALLIS
Gisele® Phlox

*Phlox cultivars*

Bred for reliable rooting, mounded habit and heat tolerance. Plus, it features large, attractive flower clusters. Trialed all over North America, Gisele is a top performer across all areas. Great in small pots, baskets and gardens — continuously producing colorful blooms.

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

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

See page 4 for Trixi mixes.
Skyscraper™ Salvia

*Salvia cultivars*

This tender perennial extends your shipping and selling season, and is great for late-Spring to Fall sales! It features large blooms that last longer and better branching than seed salvia, as well as a nice medium-vigor, rounded habit. Sturdy stems are ideal for shipping and for hold at retail.

**Height:** 14 to 28 in. (36 to 71 cm)
**Spread:** 10 to 16 in. (25 to 41 cm)
**USDA Hardiness Zone:** 7b

---

Fairy™ Scaevola

*Scaevola aemula*

Well-branched, trailing plants have outstanding outdoor performance.

**Height:** 6 to 10 in. (15 to 25 cm)
**Spread:** 18 to 24 in. (46 to 61 cm)
**PortoGrande™ Portulaca**

*Portulaca oleracea*

These vibrant, large blooms thrive in hot and arid conditions. Use these plants with full trailing habits in landscapes, baskets and mixed containers.

- **Height:** 4 to 8 in. (10 to 20 cm)
- **Spread:** 14 to 16 in. (36 to 41 cm)

---

**Tsavo™ Compact Yellow Sanvitalia**

*Sanvitalia procumbens*

Early-season, bright yellow color is offset by dark foliage. Tidy, mounded habit works beautifully in small pots.

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

---
Verbena

Four verbena series cover all your program needs! Our outstanding collection comes in a dramatic range of colors and novelty patterns, all with season-long flowering performance. For landscape-loving series or varieties that spill out of baskets and containers, just check out the pot-sizing icons below and get growing.

- **Pops™**
  - Pink+Eye
  - page 93

- **Lascar™**
  - Dark Violet, Burgundy and Magenta
  - page 94

- **Blues™**
  - Lavender+Eye, Light Pink+Eye and Neon
  - page 96

- **BeBop™**
  - Dark Violet, Burgundy and Magenta
  - page 95

SelectaNorthAmerica.com or 800 879-2255
Pops™ Verbena
Verbena cultivars

With its compact habit, Pops is tops for pot-tight production and holds well at retail. Pops mounds and spreads in the landscape better than comparable types – resists powdery mildew, too.

Height: 8 to 10 in. (20 to 25 cm)
Spread: 12 to 14 in. (30 to 36 cm)

SelectaNorthAmerica.com or 800 879-2255
Lascar™ Verbena
Verbena cultivars

Excellent color range in a uniform, reliable series. Early flowering with a mounded, trailing habit and medium vigor, Lascar varieties have full centers and make fantastic mixed containers, pots, gallons or mono baskets.

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

---

**Trixi Prime Time**
featuring
Namid Special Yellow Bidens
Lascar Dark Red Verbena
Lascar Dark Violet Verbena
See page 4 for Trixi mixes.
BeBop™ Verbena

**Verbena cultivars**

Bright, exciting flower patterns and colors on trailing plants. Great branching and center-fill show beautifully in medium mono pots or baskets. Delivers superior season-long color and performance.

**NOVELTY**

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

- Lascar Red Rose
- Lascar Dark Violet
- Lascar Burgundy
- Lascar Mango Orange
- Lascar Salmon
- Lascar Pink
- Lascar Dark Red
- Lascar White
- BeBop Lavender
- BeBop Pink
Blues™ Verbena

Verbena cultivars

With its medium-vigor, semi-upright habit and excellent branching, Blues is perfect for mixed containers. Big flowers go straight to the top without overpowering other combo components. Great powdery mildew resistance, too.

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

Lavender+EyelWhite

Magenta+Eye

Purple+Eye

Red

Rose+Eye

Violet+EyelLight Pink+Eye

SelectaNorthAmerica.com or 800 879-2255
Perennials
Dianthus

Selecta One has the assortment to meet all your dianthus needs. With our active breeding program, we provide you with the best products available. Plus, the programmability makes planning your dianthus production easier than ever. Our extensive lineup provides a variety of products that range in timing, flower forms and colors. From compact pot carnations to hardy perennials, we’ve got you covered. Check out the pot-sizing icons below to select the best products to fit your program.
NEW Carmen™
page 103
EverLast™ (Upright)
page 106
Dianthalot™ (Spreading)
page 107

HARDY DIANTHUS

NEW Carmen™
Burgundy
page 103

EverLast™ (Upright)
page 106

Dianthalot™ (Spreading)
page 107

Dianthalot
Dark Red+Star

SuperTrouper
Magenta+White

NEW Carmen
Burgundy

SelectaNorthAmerica.com or 800 879-2255

DIANTHUS 99
**NEW** Early Love™ Dianthus

*Dianthus cultivars*

Early-flowering Early Love is a unique, bicolor carnation with large, double blooms and short stems. The presentation resembles a flower bouquet and will finish in time for Valentine’s Day! Early Love is an easy-to-grow variety with great branching and is ideal for small pot programs. Great match to Pink Kisses.

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

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

**USDA Hardiness Zone:** 7a

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**NEW** Peach Party™ Dianthus

*Dianthus cultivars*

Featuring extremely long-lasting flowers, this carnation works well as a windowsill item or compact potted plant. Peach Party is ideal for distribution center shipping – not sensitive to ethylene and is highly cold tolerant. Cool Spring production produces light peach-colored flowers, while Summer production will have more contrast with a dark red eye.

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

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

**USDA Hardiness Zone:** 7a

---

**NEW** Purple Wedding™ Dianthus

*Dianthus cultivars*

Purple Wedding is an early, upright carnation that is frost tolerant and lasts for months. This variety features beautiful, bicolor blooms with three shades of purple and a dark eye that is striking against dark foliage. Best for small pot production. Keep this potted plant near a bright window for a continuous, fresh flush of flowers, or plant in the garden and watch as birds and bees flock for a big show.

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

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

**USDA Hardiness Zone:** 7a
Pink Kisses® Dianthus

Dianthus cultivars

“Grab and go” gift item gets the growing season off to a strong start, with tons of two-tone flowers that need no deadheading and keep looking great. Early-season pot carnation is easy to grow and easier to sell.

Height: 12 to 16 in. (30 to 41 cm)
Spread: 10 to 14 in. (25 to 36 cm)
USDA Hardiness Zone: 5a
Oscar® Dianthus

_Dianthus caryophyllus_

This hyper-uniform pot carnation series boasts the best-branched habit on the market. Compact, double-bloomed Oscar puts on a strong, long-lasting show in small pots and in the garden.

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

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

**USDA Hardiness Zone:** 6a

- **Purple Star 21**
- **Cherry+Velvet**
- **Dark Red**
- **Pink**
- **Pink+Purple**
- **Salmon**
- **Salmon+White**
- **Scarlet**

SelectaNorthAmerica.com or 800 879-2255
This Zone 5-hardy, true perennial overwinters better than any other true carnation on the market. Carmen features excellent uniformity and double blooms.

Height: 10 to 14 in. (25 to 36 cm)
Spread: 10 to 12 in. (25 to 30 cm)
USDA Hardiness Zone: 5b
SuperTrouper™ Dianthus
*Dianthus caryophyllus*

This pot carnation collection is a strong performer in pots and gardens. SuperTrouper has an upright habit, double flowers, an excellent color range and a wonderful fragrance.

**Height:** 10 to 14 in. (25 to 36 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**USDA Hardiness Zone:** 6a

Orange

NEW
Purple 21
**Perennials**

**NEW**

- **Purple 21**
- **White 21**
- **Lavender+White**
- **Magenta+White**

- **Orange**
- **Pink+White**
- **Red+White**
- **Scarlet**

- **Silver Pink**
- **Velvet Red**
- **Velvet+White**

SelectaNorthAmerica.com or 800 879-2255
EverLast™ Dianthus

_EverLast offers an attractive upright habit and the most extensive color range in perennial dianthus. It blooms in early Spring and provides more days of brilliant, intoxicating color than any other perennial dianthus. A favorite of perennial gardeners, EverLast is tough as nails, with excellent performance in the roughest weather._

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

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

**USDA Hardiness Zone:** 5a

---

**Colors:**
- Burgundy Blush
- Lavender+Eye
- Light Pink+Eye
- Orchid
- Raspberry Cream
- Red+Pink
- White+Eye

SelectaNorthAmerica.com or 800 879-2255
Dianthalo™ (Spreading) Dianthus
Dianthus cultivars

Dianthalo is a super-tough spreading dianthus series that blooms in Spring. Its spreading habit blooms continuously all Summer long and overwinters. No vernalization is required. Dianthalo is an excellent fast crop perennial for Spring planting and is great for large pots.

Height: 8 to 12 in. (20 to 30 cm)
Spread: 14 to 20 in. (36 to 51 cm)
USDA Hardiness Zone: 5a

SelectaNorthAmerica.com or 800 879-2255 107DIANTHUS
Lido® Delosperma
Delosperma cultivars

Colorful addition to your succulent program in a drought-tolerant flowering plant! This cost-effective, impressive flowering perennial has lower watering needs and produces carpets of bright color for garden beds, landscapes and rock gardens that will grab attention from home gardeners at retail, increasing sell-through.

**Height:** 4 to 6 in. (10 to 15 cm)
**Spread:** 16 to 24 in. (41 to 61 cm)
**USDA Hardiness Zone:** 5b

![Golden Yellow](image1)
![Orange+Eye](image2)
![Magenta](image3)
![Pink](image4)
![White](image5)

SelectaNorthAmerica.com or 800 879-2255
Belleza® Gaura
Gaura lindheimeri

Excellent branching Belleza has an upright habit, with the exception of mounding Compact Light Pink. Great companion plant.

Height: 12 to 18 in. (30 to 46 cm)
Spread: 16 to 20 in. (41 to 51 cm)
USDA Hardiness Zone: 6a to 9b
LaVela™ Lavender
*Lavandula stoechas*

This tender perennial works best as a colorful potted flowering plant and flowers for early-season sales. See retail sales soar high just like the beautiful presentation made by large flag and big bee on this well-branched Spanish Lavender. Compact Dark Violet 21 was upgraded for better shippability.

- **Height:** 13 to 15 in. (33 to 38 cm)
- **Spread:** 10 to 12 in. (25 to 30 cm)
- **USDA Hardiness Zone:** 7a

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Sweet Dreams™ Lavender
*Lavandula angustifolia*

Sweet Dreams Collection Lavender offers strong growing with low to no vernalization required. These strong, well-branched plants provide deeper blue flowers, superior fragrance and better Summer performance compared to other English Lavender.

- **Height:** 12 to 20 in. (30 to 51 cm)
- **Spread:** 6 to 14 in. (15 to 36 cm)
- **USDA Hardiness Zone:** 5a
Herbs
Herbs

Explore the versatility of Selecta One’s quality vegetative herb collection — an array of sweet and savory varieties. Add these herbs to your favorite recipes for a burst of flavor, and they work well in borders, too!

Lemon Verbena
Lemon Verbena
*Lippia citriodora*

Lemon Balm
*Melissa officinalis*

Moroccan
*Mentha spicata*

Common
*Mentha x piperita*

Chocolate Mint
*Mentha x piperita*

Greek Columnar
*Ocimum basilicum*

Italian
*Origanum vulgare*

Compactum
*Origanum vulgare*

Hot & Spicy
*Origanum vulgare*

Marjoram
*Origanum vulgare*

Tuscan Blue
*Rosmarinus officinalis*

Perigord
*Rosmarinus officinalis*

*Herbs continues on page 114*
Herbs Continued

- **Prostratus**
  *Rosmarinus officinalis*

- **Common**
  *Rosmarinus officinalis*

- **Purpurascens**
  *Salvia officinalis*

- **Tricolor**
  *Salvia officinalis*

- **Berggarten**
  *Salvia officinalis*

- **Aurea**
  *Salvia officinalis*

- **Grower’s Friend**
  *Salvia officinalis*

- **Compactus**
  *Thymus x citriodorus*

- **Doone Valley**
  *Thymus x citriodorus*

- **Silver Queen**
  *Thymus x citriodorus*

- **Spanish**
  *Thymus x citriodorus*

- **Faustinoi**
  *Thymus vulgaris*
Kitchen Herb Garden
Product Information

Product Forms

Selecta One offers you a range of different product forms including unrooted cuttings and TrixiLiners. Groundbreaking products like our overwhelmingly successful Trixi program make Selecta One’s product offering the most innovative in the industry. We develop programs with you in mind, and together we are Creating the Future™.

Unrooted cuttings

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

AutoStix® 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/multiples of 100
- Order minimum is 2,000
- Available exclusively through Ball Seed

Rooted cuttings

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

Trixi®

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

Selecta One Clean & Field-Tested Varieties

Every Selecta One variety is rigorously tested before entering our program. Every program variety is subject to the same testing annually. Our Selecta One Clean Stock program follows strict, internationally recognized protocols, and is based on nearly 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 2021

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<tr>
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<td>Dianthus SuperTrouper Butterfly Dark Red</td>
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<td>Dianthus SuperTrouper Lilac On Purple</td>
<td>Dianthus SuperTrouper Magenta+White</td>
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Renamed Selecta One Varieties for 2021

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Selecta North America

Selecta North America is a leading supplier of high-quality ornamental plants. We offer a wide variety of flowers, including annuals, perennials, and specialty plants. Our comprehensive range includes popular varieties like MiniFamous® Neo and Big Falls™, as well as many other favorites.

Selecta North America provides a vast selection of varieties, ensuring that growers have access to the latest offerings in the ornamental plant industry. With a focus on quality and customer satisfaction, Selecta North America is committed to delivering outstanding products to meet the needs of gardeners and landscape professionals alike.

Selecta North America can be contacted at SelectaNorthAmerica.com or 800 879-2255. Visit our website for more information and to explore our extensive selection of plants.

TERMS & CONDITIONS OF SALE

Selecta North America reserves the right to change prices, terms, and conditions at any time without notice. All prices are subject to change without notice. Selecta North America is not responsible for typographical errors or errors due to changes made by manufacturers. We recommend that you verify all product information and terms before making a purchase.

Selecta North America does not accept returns or exchanges for any reason. Orders that are not accepted for any reason must be returned to Selecta North America within 10 days from the date of delivery. Any returned goods must be in their original condition and must be accompanied by a Return Merchandise Authorization (RMA) number.

Selecta North America cannot be held responsible for any damages, losses, or injuries caused by the use or misuse of our products. Selecta North America is not responsible for any direct, indirect, incidental, or consequential damages resulting from the use of our products.

Selecta North America's liability is limited to the purchase price of the affected item(s). Selecta North America will not be liable for any lost profits, lost savings, or any other incidental, special, or consequential damages, whether based on contract, tort, or any other legal theory.

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## Important Plant Protection & Licensing Information

### Plant Protection

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

### Flowering Only Terms & Conditions

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

### Propagation License Agreement

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

### 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.

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### Image of Selecta One Geraniums

**Image:** Selecta One Geraniums displayed in various colors and varieties. The image highlights the unique characteristics and vibrant colors of each variety, emphasizing their appeal in landscaping and gardens.

### Table of Selecta One Varieties

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**Image:** Close-up of various Selecta One Geraniums showcasing their vibrant colors and unique flower structures. The image highlights the diversity within the Selecta One portfolio, appealing to gardeners with different preferences and aesthetics.

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**Image:** Stake holders and labels indicating Selecta One branding and product information. The image emphasizes the importance of proper labeling and adherence to licensing agreements for the protection of intellectual property.
Terms & Conditions of Sale

Selecta Terms & Conditions of Sale are country/region specific. Visit SelectaNorthAmerica.com for current Terms & Conditions. The following Terms & Conditions of Sale apply to unrooted cuttings or rooted liners sold by Ball Seed within the United States and Canada. If you purchase rooted liners from a broker other than Ball Seed, contact your broker to obtain its current terms & conditions.

Acceptance of Terms

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

Limitation of Warranty

Seller warrants, to the extent required by law, that merchandise conforms to the description appearing in Seller's catalog and on container labels, within recognized tolerances. SELLER MAKES NO OTHER OR FURTHER WARRANTY, EXPRESS OR IMPLIED, ALL OTHER OR FURTHER WARRANTIES, INCLUDING ANY WARRANTIES OF MERCHANTABILITY, TITLE, NON-INFRINGEMENT AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED.

Certain merchandise may be separately warranted by the manufacturer. Seller does not adopt or ratify any manufacturer warranties, express or implied, and Seller shall have no liability thereunder. Seller does not adopt or ratify any manufacturer warranties, express or implied, made by Purchaser upon resale of the merchandise, and Seller shall have no liability thereunder.

Limitation of Remedy

PURCHASER'S SOLE AND EXCLUSIVE REMEDY SHALL BE REFUND OF THE PURCHASE PRICE. SELLER'S LIABILITY, WHETHER FOR BREACH OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE, PRODUCTS LIABILITY OR ANY OTHER THEORY OF LIABILITY, IS LIMITED TO THE AMOUNT OF THE PURCHASE PRICE. WITHOUT LIMITATION, UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE, OR FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES.

Excluded Use

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

Mandatory Arbitration

ANY CLAIM WHICH PURCHASER MAY HAVE AGAINST SELLER ARISING OUT OF OR RELATING TO THE SALE OF THE MERCHANDISE SHALL BE SETTLED BY BINDING ARBITRATION IN ACCORDANCE WITH THE COMMERCIAL ARBITRATION RULES OF THE AMERICAN ARBITRATION ASSOCIATION, SAID ARBITRATION TO BE HELD IN COOK OR DUPAGE COUNTRIES, ILLINOIS. The laws of several states require arbitration, conciliation or mediation of disputes involving allegedly defective plants before legal action may be taken. Purchaser should contact the State Department of Agriculture for information. Such laws typically require that a complaint be filed with the State Department of Agriculture in time to permit inspection of the crops or plants. If such a complaint is filed, a copy must be sent to Seller by registered or certified mail.

Governing Law, Jurisdiction & Venue

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

Indemnity

By accepting merchandise, Purchaser agrees to defend Seller, to hold it harmless and indemnify it from and against any claim or loss asserted by any or all transferees of such merchandise or users of the products of such merchandise who are not notified by Purchaser in writing of Limitation of Warranty, Limitation of Remedy, Mandatory Arbitration, Governing Law, Arbitration and Venue and Notice Regarding Seed-Borne Diseases in language substantially equivalent to that contained in these Terms & Conditions of Sale.

Minimum Orders

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

Prices

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

Payment

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

Freight & Handling

Charges, Inspection, Damaged Goods

The freight and handling charge on Purchaser's invoice covers shipment of the merchandise to Purchaser's destination, and replacement or credit for damaged merchandise if the steps listed here are followed. PURCHASER WILL NOT REFUSE OR RETURN GOODS, OR THE RIGHT TO FILE A CLAIM IS LOST AND PURCHASER WILL STILL BE LIABLE FOR THE MATERIAL AND THE FREIGHT. When Purchaser receives shipment: 1) Count all cartons. 2) Inspect all cartons for external damage. 3) Check for open or resealed cartons. 4) Note any damages; shortages, open or resealed cartons on the delivery receipt; the carrier's representative must also sign the receipt. 5) Open all boxes immediately and inspect for damage due to weather related issues such as scorched, frozen or broken plants; material shortages; etc. NOTIFY SELLER IMMEDIATELY IF A SHIPMENT IS DAMAGED. Call the Ball Traffic Department at 800 879-2255 to report the damage and receive details on what is needed to file a claim. Damaged unrooted cuttings will be replaced by Selecta One. Damaged rooted cuttings will be replaced by Ball Seed.

Cancellation Policy

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

Notice & Return

No returns will be accepted. Seller shall have no liability for any defect unless notice is given promptly, not to exceed five (5) days after receipt of delivery of merchandise. Notice of defect should be addressed to Ball at 800 879-2255.

Delays, Shortages & Substitutions

Seller shall not be responsible for delays in delivery or for losses resulting from such delays. Seller reserves the right to make partial shipment. In the event of shortages, Seller may substitute such other, similar merchandise as is available.

Plant Protection

Varieties described herein may be covered by the Flowering-Only License Agreement, United States Plant Patents, Utility Patents, and/or Plant Breeders Rights. These varieties may not be reproduced without authorization. The breeder or authorized representative has the right to inspect customers nurseries during normal business hours to assess compliance with the restrictions on use of protected varieties.

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Sales Limitations

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

Prices do not include installation; Seller takes no responsibility, and shall have no liability for installation.

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

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<th>Average Days with Mist</th>
<th>Early PGR Treatment Recommended (after 7 - 10 days)¹</th>
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<tr>
<td><strong>Bacopa</strong></td>
<td>Sutera grandiflora</td>
<td>25 mm</td>
<td>no</td>
<td>7 to 9</td>
<td>yes</td>
<td>3 to 4</td>
<td>recommended</td>
<td>Stick two cuttings per cell; avoid overwatering of young plants; apply preventive fungicide treatment after sticking.</td>
</tr>
<tr>
<td><strong>Begonia boliviensis</strong></td>
<td>Compact Double Apricot, Mistral¹</td>
<td>25/35 mm</td>
<td>optional</td>
<td>0 to 3, reduce mist as soon as possible</td>
<td>yes</td>
<td>4 to 5</td>
<td>recommended; pinch to node #3 but before developing node #5</td>
<td>Avoid overmisting/watering of young plants. To avoid dormancy, tuberous Begonia requires a minimum day length of 14 hrs. and a minimum temperature of 55°F/13°C.</td>
</tr>
<tr>
<td><strong>Begonia</strong></td>
<td>Begonia cultivars</td>
<td>25/35 mm</td>
<td>optional</td>
<td>0 to 3, reduce mist as soon as possible</td>
<td>yes</td>
<td>4 to 5</td>
<td>recommended; pinch to node #3 but before developing node #5</td>
<td>Avoid overmisting/watering of young plants. To avoid dormancy, tuberous Begonia requires a minimum day length of 14 hrs. and a minimum temperature of 55°F/13°C.</td>
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<tr>
<td><strong>Bidens</strong></td>
<td>Bidens ferulifolia</td>
<td>25 mm</td>
<td>no</td>
<td>7 to 9</td>
<td>yes</td>
<td>3 to 4</td>
<td>optional</td>
<td>Avoid stretch.</td>
</tr>
<tr>
<td><strong>Bracteantha</strong></td>
<td>Bracteantha bracteata</td>
<td>25/35 mm</td>
<td>recommended</td>
<td>9 to 12</td>
<td>no</td>
<td>4 to 5</td>
<td>no</td>
<td>Reduce mist as soon as possible; apply preventive fungicide treatment after sticking.</td>
</tr>
<tr>
<td><strong>Calceolaria</strong></td>
<td>Calceolaria hybrids</td>
<td>35/45 mm</td>
<td>recommended</td>
<td>9 to 12</td>
<td>no</td>
<td>5 to 6</td>
<td>no</td>
<td>Cool and humid conditions provide best environment for rooting. Avoid standing water on leaves, over-misting, heavily saturated media and overly warm conditions.</td>
</tr>
<tr>
<td><strong>Calibrachoa</strong></td>
<td>Calibrachoa cultivars</td>
<td>25 mm</td>
<td>optional</td>
<td>9 to 12</td>
<td>yes</td>
<td>4 to 5</td>
<td>optional</td>
<td>Don't stick too deep; avoid overwatering of young plants and water stress.</td>
</tr>
<tr>
<td><strong>Calibrachoa</strong></td>
<td>Calibrachoa hybrids</td>
<td>20 mm</td>
<td>no</td>
<td>9 to 12</td>
<td>optional</td>
<td>4 to 5</td>
<td>optional</td>
<td>Stick right after arrival. Apply preventive fungicide treatment after sticking, and reduce mist as soon as possible.</td>
</tr>
<tr>
<td><strong>Convolvulus</strong></td>
<td>Convolvulus sabatius</td>
<td>25 mm</td>
<td>optional</td>
<td>9 to 12</td>
<td>yes</td>
<td>4 to 5</td>
<td>optional</td>
<td></td>
</tr>
<tr>
<td><strong>Cuphea</strong></td>
<td>Cuphea hyssopifolia</td>
<td>20 mm</td>
<td>optional</td>
<td>14</td>
<td>no</td>
<td>5</td>
<td>optional</td>
<td></td>
</tr>
<tr>
<td><strong>Dahlia</strong></td>
<td>Dahlia hybrids</td>
<td>25 mm</td>
<td>yes</td>
<td>9 to 12</td>
<td>yes, B-Nine 1,500 PPM (S)</td>
<td>5</td>
<td>yes</td>
<td>Hormone will improve rooting. Night-break lighting (10 p.m.-2 a.m.) will reduce likelihood of tuber formation.</td>
</tr>
<tr>
<td><strong>Dahlia</strong></td>
<td>Dahlia pinnata</td>
<td>25 mm</td>
<td>yes</td>
<td>9 to 12</td>
<td>no</td>
<td>3 to 4</td>
<td>optional</td>
<td></td>
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<tr>
<td>Dahlia</td>
<td>Dalaya™</td>
<td>25 mm</td>
<td>yes</td>
<td>9 to 12</td>
<td>Apply B-Nine 1,500 PPM (S)</td>
<td>5</td>
<td>yes</td>
<td>Rooting hormone will even out rooting. Night interruption or extended day will help prevent tuber formation in short day seasons.</td>
</tr>
<tr>
<td>Dahlia</td>
<td>Dahlia pinnata</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 regime as soon as roots are present to keep plant herbaceous. When propagating in short day season, give long days during liner growing.</td>
</tr>
<tr>
<td>Diascia</td>
<td>Piccadilly™</td>
<td>25 mm</td>
<td>no</td>
<td>7 to 9</td>
<td>yes</td>
<td>3 to 4 recommended</td>
<td>Stick two cuttings per cell.</td>
<td></td>
</tr>
<tr>
<td>Euphorbia</td>
<td>Euphorbia hypericifolia</td>
<td>Loreen™</td>
<td>25/35 mm</td>
<td>optional</td>
<td>7 to 10</td>
<td>Apply B-Nine/ Cycocel tank mix (S) 7 to 10 days after stick</td>
<td>3 to 4 recommended</td>
<td>Ethylene sensitive, so stick as soon as possible. Flower buds are common in propagation. Reduce mist as soon as possible.</td>
</tr>
<tr>
<td>Fuchsia</td>
<td>Fuchsia cultivars</td>
<td>Bellinto™</td>
<td>25 mm</td>
<td>no</td>
<td>7 to 10</td>
<td>no</td>
<td>4</td>
<td>yes</td>
</tr>
<tr>
<td>Geranium (Interspecific)</td>
<td>Pelargonium cultivars</td>
<td>Marcada™</td>
<td>30/40 mm</td>
<td>yes</td>
<td>14</td>
<td>yes</td>
<td>5</td>
<td>no</td>
</tr>
<tr>
<td>Geranium (Ivy)</td>
<td>Pelargonium peltatum</td>
<td>Balcon, Decora, Royal™</td>
<td>25/35 mm single or double strip</td>
<td>yes</td>
<td>14</td>
<td>yes</td>
<td>4 to 5</td>
<td>no</td>
</tr>
<tr>
<td>Geranium (Ivy)</td>
<td>Pelargonium peltatum</td>
<td>Glacier White</td>
<td>30/40 mm</td>
<td>yes</td>
<td>14</td>
<td>optional</td>
<td>5</td>
<td>optional</td>
</tr>
<tr>
<td>Geranium (Zonal)</td>
<td>Pelargonium x hortorum</td>
<td>Moonlight™, Sunrise™</td>
<td>25/35 mm single or double strip</td>
<td>optional</td>
<td>7 to 9</td>
<td>no</td>
<td>4</td>
<td>no</td>
</tr>
<tr>
<td>Geranium (Zonal)</td>
<td>Pelargonium x hortorum</td>
<td>Super Moon Red</td>
<td>30 mm</td>
<td>yes</td>
<td>7 to 9</td>
<td>yes</td>
<td>5</td>
<td>no</td>
</tr>
<tr>
<td>Glechoma</td>
<td>Glechoma hederacea</td>
<td>Variegata</td>
<td>20 mm</td>
<td>no</td>
<td>6</td>
<td>no</td>
<td>4</td>
<td>yes</td>
</tr>
<tr>
<td>Helichrysum</td>
<td>Helichrysum italicum</td>
<td>Silver</td>
<td>25 mm</td>
<td>optional</td>
<td>15</td>
<td>optional</td>
<td>5</td>
<td>no</td>
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<td><strong>Heliotrope</strong></td>
<td>Heliotropium arborescens</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>Impatiens (Interspecific)</strong></td>
<td>Impatiens hawkeri</td>
<td>25 mm</td>
<td>no</td>
<td>6 to 9</td>
<td>yes</td>
<td>4 to 5</td>
<td>no</td>
<td>Reduce mist starting day 5; don’t overwater.</td>
</tr>
<tr>
<td><strong>Impatiens (New Guinea)</strong></td>
<td>Impatiens hawkeri</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><strong>Impatiens (New Guinea)</strong></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><strong>Lobelia</strong></td>
<td>Lobelia cultivars</td>
<td>20 mm</td>
<td>no</td>
<td>14</td>
<td>optional</td>
<td>4</td>
<td>yes</td>
<td>Keep cuttings hydrated. Avoid overwatering of young plants.</td>
</tr>
<tr>
<td><strong>Lobelia</strong></td>
<td>Lobelia cultivars</td>
<td>25 mm</td>
<td>no</td>
<td>7 to 9</td>
<td>yes</td>
<td>4</td>
<td>recommended</td>
<td></td>
</tr>
<tr>
<td><strong>Lobularia</strong></td>
<td>Lobularia maritima</td>
<td>20/30 mm</td>
<td>no</td>
<td>10</td>
<td>optional</td>
<td>4</td>
<td>no</td>
<td></td>
</tr>
<tr>
<td><strong>Lysimachia</strong></td>
<td>Lysimachia nummularia</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><strong>Mandevilla</strong></td>
<td>Mandevilla sanderi</td>
<td>30/45 mm</td>
<td>yes</td>
<td>14</td>
<td>optional</td>
<td>6 to 8</td>
<td>no</td>
<td></td>
</tr>
<tr>
<td><strong>Mandevilla</strong></td>
<td>Mandevilla sanderi</td>
<td>30/40 mm</td>
<td>optional</td>
<td>14</td>
<td>optional</td>
<td>6 to 8</td>
<td>no</td>
<td></td>
</tr>
<tr>
<td><strong>Muehlenbeckia</strong></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><strong>Osteospermum</strong></td>
<td>Osteospermum hybrid</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><strong>Osteospermum</strong></td>
<td>Daisy Falls™</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><strong>Osteospermum</strong></td>
<td>FlowerPower™ Compact, FlowerPower™ Spider, Zion™</td>
<td>25/35 mm</td>
<td>recommended</td>
<td>12 to 16</td>
<td>yes</td>
<td>4 to 5</td>
<td>no</td>
<td>Keep cuttings hydrated.</td>
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| Pericallis  
Senecio x hybrida | Senetti* | 25 mm | yes | 21 | optional | 4 | yes | 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. |
| Petunia  
Petunia cultivars | Headliner™,  
Starlet™,  
SweetSunshine™ | 25 mm | no | 7 to 9 | yes | 4 | no | Avoid stretch; apply preventive fungicide spray after sticking. For detailed culture on the Sky Petunias visit SelectaNorthAmerica.com/SkyPetuniaCulture |
| Petunia  
Petunia cultivars | Main Stage™ | 30 mm | no | 7 to 9 | yes | 4 | optional | For detailed culture on the Sky Petunias visit SelectaNorthAmerica.com/SkyPetuniaCulture |
| Phlox  
Phlox cultivars | Gisele* | 25 mm | no | 12 | no | 4 to 5 | no | Avoid overmistning and misting after rooting. |
| Portulaca  
Portulaca oleracea | PortoGrande™ | 25 mm | no | 7 to 9 | no | 3 to 4 | optional | Avoid overwatering of young plants. |
| Salvia  
Salvia cultivars | Skyscraper™ | 25 mm | optional | 14 | yes | 4 | yes | Use B-Nine 2,500 PPM spray. |
| Sanvitalia  
Sanvitalia procumbens | Tsavo™ | 25 mm | no | 7 to 9 | yes | 4 | optional | Keep cuttings hydrated; avoid overwatering of young plants. |
| Scaevola  
Scaevola aemula | Fairy™ | 25 mm | recommended | 9 to 12 | yes | 5 to 6 | optional | Keep cuttings hydrated. |
| Sedum  
Sedum mexicanum | Gold Mound | 25/35 mm | no | 12 to 18 | no | 5 to 6 | no | |
| Trixi* | Trixi recipes  
Please ask for our detailed Tech Sheet | N/A | N/A | N/A | N/A | N/A | TrixiLiners ship pinched | TrixiLiner is pinched, treated with PGR, and well-toned for best results. |
| Verbena  
Verbena cultivars | BeBop™,  
Blues™,  
Lascar™,  
Pops™ | 25 mm | optional | 7 to 9 | yes | 3 to 4 | optional | Avoid stretch; reduce and stop misting as soon as possible. |

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<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>Delosperma</td>
<td>Lido™</td>
<td>20/30 mm</td>
<td>no</td>
<td>14</td>
<td>no</td>
<td>5</td>
<td>no</td>
<td>Very low mist or tent.</td>
</tr>
<tr>
<td>Dianthus</td>
<td>Carmen™, Early Love™</td>
<td>25/35 mm</td>
<td>recommended</td>
<td>14 to 21</td>
<td>no</td>
<td>5 to 6</td>
<td>recommended</td>
<td>Keep very moist for the first 7 days, then reduce mist to avoid saturated media.</td>
</tr>
<tr>
<td>Dianthus</td>
<td>Dianthalo™, Pink Kisses™</td>
<td>25/35 mm</td>
<td>recommended</td>
<td>14 to 21</td>
<td>no</td>
<td>5 to 6</td>
<td>recommended</td>
<td>Keep hydrated. Sensitive root system; avoid overwatering of young plants.</td>
</tr>
<tr>
<td>Dianthus</td>
<td>EverLast™</td>
<td>25/35 mm</td>
<td>recommended</td>
<td>14 to 21</td>
<td>no</td>
<td>5 to 6</td>
<td>recommended</td>
<td>Keep hydrated. Sensitive root system; avoid overwatering of young plants.</td>
</tr>
<tr>
<td>Dianthus</td>
<td>Dianthus interspecific</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>Dianthus</td>
<td>Oscar®, SuperTrouper™</td>
<td>25/35 mm</td>
<td>recommended</td>
<td>14 to 21</td>
<td>no</td>
<td>5 to 6</td>
<td>recommended</td>
<td>Keep hydrated. Sensitive root system; avoid overwatering of young plants.</td>
</tr>
<tr>
<td>Dianthus</td>
<td>Peach Party™</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 moist for the first week in propagation, then back down on mist rapidly to avoid rot.</td>
</tr>
<tr>
<td>Dianthus</td>
<td>Purple Wedding™</td>
<td>25/35 mm</td>
<td>recommended</td>
<td>14 to 21</td>
<td>no</td>
<td>5 to 6</td>
<td>recommended</td>
<td>Keep cuttings hydrated. Sensitive root system; avoid overwatering of young plants.</td>
</tr>
<tr>
<td>Gaura</td>
<td>Belleza®</td>
<td>25 mm</td>
<td>optional</td>
<td>7 to 9</td>
<td>yes</td>
<td>4</td>
<td>optional</td>
<td>Avoid stretch.</td>
</tr>
<tr>
<td>Lavandula</td>
<td>Sweet Dreams™</td>
<td>20/30 mm</td>
<td>optional</td>
<td>12</td>
<td>no</td>
<td>6</td>
<td>yes</td>
<td>Reduce mist after day 5 to avoid rot and to drive root development.</td>
</tr>
<tr>
<td>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>
</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.

For more cultural details and Tech Sheets, please visit our website SelectaNorthAmerica.com. 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.
## 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>Bacopa</strong>&lt;br&gt;Sutera grandiflora</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><strong>Begonia</strong>&lt;br&gt;Begonia boliviensis</td>
<td>Compact Double Apricot, Mistral®</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/Ec 1.8-2.0 - Keep N up</td>
<td>grow on the dry side</td>
<td>68-78°F/62-65°F 20-26°C/17-18°C</td>
<td>yes; pinch to node #3 but before developing node #5</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Begonia</strong>&lt;br&gt;Begonia cultivars</td>
<td>Compact Marshmallow</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/Ec 1.8-2.0 - Keep N up</td>
<td>grow on the dry side</td>
<td>68-78°F/62-65°F 20-26°C/17-18°C</td>
<td>yes; pinch to node #3 but before developing node #5</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Bidens</strong>&lt;br&gt;Bidens ferulifolia</td>
<td>Namid™</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/Ec 1.8-2.0</td>
<td>grow on the dry side</td>
<td>65-75°F/50-60°F 18-24°C/10-16°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Bracteantha</strong>&lt;br&gt;Bracteantha bracteata</td>
<td>Mohave™</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/Ec 1.8-2.0</td>
<td>keep constantly moist</td>
<td>65-75°F/50-60°F 18-24°C/10-16°C</td>
<td>for larger pots only</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Calceolaria</strong>&lt;br&gt;Calceolaria hybrida</td>
<td>Calynopsis™</td>
<td>5.8</td>
<td>200-250 PPM N</td>
<td>grow on the dry side</td>
<td>55-76°F/40-52°F 13-24°C/4-11°C</td>
<td>no</td>
<td>4,000 to 6,000</td>
</tr>
<tr>
<td><strong>Calibrachoa</strong>&lt;br&gt;Calibrachoa cultivars</td>
<td>MiniFamous® Neo</td>
<td>5.4-5.8</td>
<td>200-250 PPM N/Ec 2.0-2.4</td>
<td>keep evenly moist</td>
<td>70-75°F/55-60°F 21-24°C/13-16°C</td>
<td>recommended</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Calibrachoa</strong>&lt;br&gt;Calibrachoa hybrida</td>
<td>MiniFamous® Uno</td>
<td>5.5-6.2</td>
<td>200-250 PPM N/Ec 2.0-2.4</td>
<td>keep evenly moist</td>
<td>65-80°F/55-65°F 18-27°C/13-18°C</td>
<td>optional</td>
<td>4,000 to 7,000</td>
</tr>
<tr>
<td><strong>Convolvulus</strong>&lt;br&gt;Convolvulus sabatius</td>
<td>Early Blue, Prime White</td>
<td>5.8-6.2</td>
<td>225-300 PPM N</td>
<td>keep evenly moist</td>
<td>70-75°F/55-60°F 21-24°C/13-16°C</td>
<td>recommended</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Cuphea</strong>&lt;br&gt;Cuphea hyssopifolia</td>
<td>Pink, Purple, White</td>
<td>5.5-6.4</td>
<td>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><strong>Dahlia</strong>&lt;br&gt;Dahlia hybrida</td>
<td>City Lights™</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/Ec 1.8-2.2</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><strong>Dahlia</strong>&lt;br&gt;Dahlia pinnata</td>
<td>Dahliaetta™</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/Ec 1.8-2.2</td>
<td>keep evenly moist</td>
<td>65-76°F/59-64°F 18-24°C/15-18°C</td>
<td>recommended</td>
<td>4,000 to 6,000</td>
</tr>
</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.
<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 15-cm) Pots, Quarts</th>
<th>6-inch (15-cm) Pots, Gallons</th>
<th>10 to 12-inch (25 to 30-cm) Tubs or Baskets</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-Nine 750-1,500 PPM (S), Sumagic 5-10 PPM (S)/ Sumagic 0.25 PPM (D)</td>
<td>Thrips, Aphids, Botrytis, Pythium</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>
<td>7 to 9 weeks, 2 ppp</td>
<td>8 to 10 weeks, 4 to 5 ppp</td>
</tr>
<tr>
<td>B-Nine 2,500 PPM (S), 250-500 PPM Cycocel (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>
<td>9 to 10 weeks, 1 ppp</td>
<td>9 to 12 weeks, 4 ppp</td>
</tr>
<tr>
<td>B-Nine 2,500 PPM (S), 250-500 PPM Cycocel (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>
<td>9 to 10 weeks, 1 ppp</td>
<td>9 to 12 weeks, 4 ppp</td>
</tr>
<tr>
<td>B-Nine 2,500 PPM (S), Sumagic 3-5 PPM (S)/ Sumagic 0.25 PPM (D)</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>
<td>6 to 8 weeks, 1 to 2 ppp</td>
<td>6 to 9 weeks, 4 to 5 ppp</td>
</tr>
<tr>
<td>Sumagic 5-10 PPM (S), Bonzi 10-20 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>
<td>7 to 8 weeks, 2 ppp</td>
<td>8 to 10 weeks, 4 ppp (Mohave™ Basket Yellow)</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>
<td>10 to 12 weeks, 1 ppp</td>
<td>13 to 15 weeks, 3 ppp</td>
</tr>
<tr>
<td>B-Nine 2,500-3,500 PPM (S), Sumagic 10-20 PPM (S)/ Sumagic 0.25 PPM (D), Bonzi 1-2 PPM (D)</td>
<td>Aphids, Thrips, Pythium, Thielaviopsis</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>
<td>7 to 11 weeks, 1 to 2 ppp</td>
<td>9 to 12 weeks, 4 to 5 ppp</td>
</tr>
<tr>
<td>B-Nine 1,500 PPM (S), Bonzi 1 PPM (D)</td>
<td>Thielaviopsis, Powdery Mildew, Aphids, Mites</td>
<td></td>
<td>5 to 7 weeks, 1 ppp</td>
<td>7 to 9 weeks, 1 ppp</td>
<td>10 to 14 weeks, 3 to 4 ppp</td>
</tr>
<tr>
<td>B-Nine 2,500-3,500 PPM (S), Sumagic 10-20 PPM (S)/ Sumagic 0.25 PPM (D), Bonzi 1-2 PPM (D)</td>
<td>Aphids, Mites, Thrips</td>
<td>Can be grown dryer to promote higher flower count.</td>
<td>7 to 8 weeks, 1 ppp</td>
<td>9 to 10 weeks, 2 ppp</td>
<td>9 to 12 weeks, 4 ppp</td>
</tr>
<tr>
<td>none</td>
<td>Aphids, Mites, Thrips, Botrytis</td>
<td></td>
<td>5 to 6 weeks, 1 ppp</td>
<td>6 to 8 weeks, 1 to 3 ppp</td>
<td>10 to 12 weeks, 3 to 5 ppp</td>
</tr>
<tr>
<td>B-Nine 2,500 PPM (S), B-Nine 1,000 PPM (S)/Cycocel 500 PPM (S) tank mix, Bonzi 2 to 4 PPM (D)</td>
<td>Pythium, Botrytis, Aphids, Thrips, Spider Mites, Mites, Root Rot, Powdery Mildew</td>
<td></td>
<td>5 to 7 weeks, 1 ppp</td>
<td>7 to 9 weeks, 1 ppp</td>
<td>10 to 14 weeks, 3 to 4 ppp</td>
</tr>
<tr>
<td>B-Nine 2,500-4,000 PPM (S), Cycocel 1,000-1,500 PPM tank mix (S)</td>
<td>Thrips, Leafminer, Botrytis</td>
<td>Night-break lighting will reduce likelihood of tuber formation.</td>
<td>6 to 8 weeks, 1 ppp</td>
<td>7 to 9 weeks, 1 to 2 ppp</td>
<td></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 8-12°F/4-6°C 2 hours before sunrise until 2-3 hours after sunrise. Start treatments after plants are rooted in, well-branched, and cover the media (reach the pot edges). To avoid delayed flowering, keep the average day temperature under a close watch and if necessary, increase night temperatures. Finishing of the crop depends on the average day temperature, and positive or negative DIF methods as well as “Cool Morning” can be used to improve plant quality.*
### Annuals Finishing Guide

#### ROOTING & FINISHING

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<tr>
<td><strong>Dahila</strong></td>
<td>Dahlia hybrida</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>Dahila</strong></td>
<td>Dahlia pinnata</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.2</td>
<td>keep constantly moist</td>
<td>70-75°F/55-60°F 21-24°C/13-16°C</td>
<td>optional</td>
<td>4,000 to 7,000</td>
</tr>
<tr>
<td><strong>Diascia</strong></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><strong>Euphorbia</strong></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 over-watering</td>
<td>65-76°F/59-67°F 18-24°C/15-19°C</td>
<td>yes</td>
<td>6,000 to 9,000</td>
</tr>
<tr>
<td><strong>Fuchsia</strong></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><strong>Geranium (Interspecific)</strong></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><strong>Geranium (Ivy)</strong></td>
<td>Pelargonium × hortorum</td>
<td>5.4-5.8</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>grow on the dry side</td>
<td>65-75°F/60-65°F 18-24°C/16-18°C</td>
<td>recommended</td>
<td>3,000 to 5,000</td>
</tr>
<tr>
<td><strong>Geranium (Ivy)</strong></td>
<td>Pelargonium × hortorum</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><strong>Geranium (Zonal)</strong></td>
<td>Pelargonium × 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><strong>Geranium (Zonal)</strong></td>
<td>Pelargonium × 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/55-65°F 18-25°C/13-18°C</td>
<td>optional</td>
<td>4,000 to 7,000</td>
</tr>
<tr>
<td><strong>Glechoma</strong></td>
<td>Glechoma hederacea</td>
<td>5.4-6.5</td>
<td>moderate</td>
<td>moderate</td>
<td>40-70°F/60-90°F 4-21°C/16-32°C</td>
<td>optional</td>
<td>2,500 to 7,000</td>
</tr>
</tbody>
</table>

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**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>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>
</tr>
</thead>
<tbody>
<tr>
<td>B-Nine 1,500-2,500 PPM (S), B-Nine 1,500 PPM (S)/Cycocel 750 PPM (S) tank mix, Bonzi 2-4 PPM (D)</td>
<td>Thrips, Leafminers, Aphids, Botrytis</td>
<td>Night-break or extended day lighting during early Spring (natural short days) will help prevent tuber formation.</td>
<td>6 to 8 weeks, 1 ppp</td>
<td>7 to 9 weeks, 1 ppp</td>
<td>10 to 12 weeks, 3 to 4 ppp</td>
</tr>
<tr>
<td>B-Nine 1,500 PPM/Cycocel 500 PPM (S), Paclobutrazol 1-2 PPM (D), Sumagic 0.5-1 PPM (D)</td>
<td>Aphids, Thrips, Powdery Mildew, Botrytis</td>
<td>Manage humidity and avoid irrigation over blooms to prevent botrytis and powdery mildew.</td>
<td>5 to 7 weeks, 1 ppp</td>
<td>7 to 9 weeks, 1 ppp</td>
<td>10 to 14 weeks, 3 to 4 ppp</td>
</tr>
<tr>
<td>B-Nine 2,500 PPM (S), Sumagic 0.25 PPM (D)</td>
<td>Aphids, Pythium</td>
<td>Cool temperatures and high light levels will improve plant quality.</td>
<td>5 to 7 weeks, 1 ppp</td>
<td>7 to 9 weeks, 1 to 2 ppp</td>
<td>8 to 10 weeks, 4 to 5 ppp</td>
</tr>
<tr>
<td>B-Nine (S) 2,500 PPM, Cycocel (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>Cycocel (S) at 500-1,000 PPM, use a light spray to glisten.</td>
<td>Aphids, Spider Mites, Thrips, Botrytis, Pythium</td>
<td>Maintain temperature and grow the crop on the dry side, but avoid drying out, as this will slow growth (plants will push flowers). Provide excellent air circulation.</td>
<td>6 to 7 weeks, 1 ppp</td>
<td>7 to 8 weeks, 1 ppp</td>
<td>10 to 12 weeks, 3 ppp</td>
</tr>
<tr>
<td>Cycocel 750-1,000 PPM + B-Nine 1,500-2,500 PPM tank mix (S), Bonzi 2-3 PPM (S)/Cycocel 750-1,500 PPM (D)</td>
<td>Thrips, Fungus Gnats, Spider 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 Cycocel (S) at a rate of 500-1,000 PPM as needed.</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>
<td></td>
</tr>
<tr>
<td>Cycocel 750-1,500 PPM + B-Nine 1,500-2,500 PPM tank mix (S), Sumagic 1-3 PPM (S), Bonzi 2-5 PPM (S)</td>
<td>Thrips, Fungus Gnats, Spider Mites, White Fly, Rust, Botrytis, Pythium</td>
<td>Maintain temperature and grow the crop on the dry side, but avoid drying out, as this will slow growth (plants will push flowers). Provide excellent air circulation.</td>
<td>8 to 12 weeks, 1 ppp</td>
<td>12 to 14 weeks, 1 ppp</td>
<td>12 to 14 weeks, 3 to 4 ppp</td>
</tr>
<tr>
<td>Cycocel 700-1,500 PPM (S)</td>
<td>Botrytis, Pythium, Rasaltonia, Xanthomonas, Mites, Worms/Caterpillars</td>
<td>An easy-to-root vine that can grow aggressively if fed and watered well.</td>
<td>5 to 6 weeks, 1 ppp</td>
<td>6 to 8 weeks, 3 ppp</td>
<td>10 to 12 weeks, 4 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 6-12°F/4-6°C 2 hours before sunrise until 2-3 hours after sunrise. Start treatments after plants are rooted in, well-branched and cover the media (reach the pot edges). To avoid delayed flowering, keep the average day temperature under a close watch and if necessary, increase night temperatures. Finishing of the crop depends on the average day temperature, and positive or negative DIF methods as well as “Cool Morning” can be used to improve plant quality.
## Annuals 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</th>
<th>Light Levels in Foot Candles</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Helichrysum</strong></td>
<td>Silver</td>
<td>5.8-6.2</td>
<td>moderate</td>
<td>moderate</td>
<td>60-70°F/45-55°F</td>
<td>no</td>
<td>4,000 to 7,000</td>
</tr>
<tr>
<td>Helichrysum italicum</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Heliotrope</strong></td>
<td>Marino™</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC</td>
<td>keep constantly moist</td>
<td>70-75°F/55-60°F</td>
<td>no</td>
<td>5,000 to 9,000</td>
</tr>
<tr>
<td>Heliotropium arborescens</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Impatiens (Interspecific)</strong></td>
<td>Big Bounce™, Bounce™</td>
<td>6.2-6.5</td>
<td>100-150 PPM N/EC</td>
<td>grow on the dry side</td>
<td>68-79°F/55-64°F</td>
<td>no</td>
<td>4,000 to 9,000</td>
</tr>
<tr>
<td>Impatiens hawkeri</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Impatiens (New Guinea)</strong></td>
<td>ColorPower™</td>
<td>5.8-6.2</td>
<td>100-150 PPM N/EC</td>
<td>keep constantly moist</td>
<td>70-78°F/65-68°F</td>
<td>no</td>
<td>3,000 to 5,000</td>
</tr>
<tr>
<td>Impatiens hawkeri</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Impatiens (New Guinea)</strong></td>
<td>ImPower™</td>
<td>5.8-6.2</td>
<td>100-150 PPM N/EC</td>
<td>keep constantly moist</td>
<td>70-78°F/65-68°F</td>
<td>no</td>
<td>3,000 to 5,000</td>
</tr>
<tr>
<td>Impatiens hawkeri</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Lobelia</strong></td>
<td>Magadi™ Basket</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC</td>
<td>grow on the dry side</td>
<td>65-77°F/50-65°F</td>
<td>yes</td>
<td>3,000 to 6,000</td>
</tr>
<tr>
<td>Lobelia cultivars</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Lobelia</strong></td>
<td>Magadi™, Magadi™ Compact</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC</td>
<td>grow on the dry side</td>
<td>70-75°F/55-60°F</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td>Lobelia cultivars</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Lobularia</strong></td>
<td>Featherlight</td>
<td>5.8-6.2</td>
<td>150-200 PPM N</td>
<td>moderate</td>
<td>60-85°F/50-65°F</td>
<td>no</td>
<td>5,000 to 7,000</td>
</tr>
<tr>
<td>Lobularia maritima</td>
<td></td>
<td></td>
<td>constant feed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Lysimachia</strong></td>
<td>Goldilocks</td>
<td>5.5-6.2</td>
<td>200 PPM N</td>
<td>moderate</td>
<td>50-85°F/36-70°F</td>
<td>optional</td>
<td>1,500 to 6,000</td>
</tr>
<tr>
<td>Lysimachia nummularia</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Mandevilla</strong></td>
<td>Dundee</td>
<td>5.6-6.2</td>
<td>150-200 PPM N</td>
<td>moderate</td>
<td>75-95°F/60-72°F</td>
<td>no</td>
<td>5,000 to 7,000</td>
</tr>
<tr>
<td>Mandevilla sanderi</td>
<td></td>
<td></td>
<td>constant feed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Mandevilla</strong></td>
<td>Magneta™</td>
<td>5.6-6.2</td>
<td>150-200 PPM N</td>
<td>moderate</td>
<td>75-95°F/60-75°F</td>
<td>no</td>
<td>5,000 to 7,000</td>
</tr>
<tr>
<td>Mandevilla sanderi</td>
<td></td>
<td></td>
<td>constant balanced feed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Muehlenbeckia</strong></td>
<td>Muehlenbeckia</td>
<td>5.8-6.5</td>
<td>100-150 PPM N/EC</td>
<td>grow on the dry side</td>
<td>65-70°F/50-55°F</td>
<td>optional</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 15-cm) Pots, Quarts</th>
<th>6-inch (15-cm) Pots, Gallons</th>
<th>10 to 12-inch (25 to 30-cm) Tubs or Baskets</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-Nine 1,500 PPM (S)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-Nine 2,500 PPM (S), Cycoceal 1,000 PPM + B-Nine 2,500 PPM mix (S)</td>
<td>White Fly, Spider Mites, Botrytis, Pythium</td>
<td>Start warm. After side shoots have developed, cool temperatures and high light levels will improve plant quality.</td>
<td>5 to 7 weeks, 1 ppp</td>
<td>7 to 9 weeks, 1 to 2 ppp</td>
<td>8 to 10 weeks, 3 to 5 ppp</td>
</tr>
<tr>
<td>B-Nine 1,500 PPM (S) on Bounce and Big Bounce; Bonzi 2-10 PPM (S) on Big Bounce only</td>
<td>Thrips, Aphids, Mites, INSV, Botrytis, Pythium</td>
<td>Don’t overwater or overfeed. Keep pH above 6 to avoid iron/manganese toxicity.</td>
<td>6 to 8 weeks, 1 ppp</td>
<td>8 to 10 weeks, 1 ppp</td>
<td>10 to 13 weeks, 3 to 4 ppp</td>
</tr>
<tr>
<td>Bonzi 2-5 PPM (S)</td>
<td>Thrips, Aphids, Spider Mites, Botrytis, Pythium</td>
<td>Maintain temperature. For flower development, grow the crop on the dry side, but avoid drying out, as this will reduce flower performance. Avoid high salt levels.</td>
<td>6 to 7 weeks, 1 ppp</td>
<td>8 to 9 weeks, 1 to 2 ppp</td>
<td>9 to 12 weeks, 4 to 5 ppp</td>
</tr>
<tr>
<td>none</td>
<td>Aphids, Spider Mites, Thrips, Pythium, Botrytis</td>
<td></td>
<td>4 to 6 weeks, 1 ppp</td>
<td>6 to 8 weeks, 1 to 2 ppp</td>
<td>8 to 12 weeks, 4 to 5 ppp</td>
</tr>
<tr>
<td>B-Nine 2,500 PPM (S), Bonzi 2 PPM (D)</td>
<td>Thrips, Aphids, Spider Mites, Botrytis, Pythium, Rhizoctonia</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-Nine 1,500-2,500 PPM (S), Sumagic 3-5 PPM (S)/ Sumagic 0.25 PPM (D)</td>
<td>Thrips, Aphids, Spider Mites, Botrytis, Pythium</td>
<td>Pinch as needed for improved plant habit. Let media dry out between watering.</td>
<td>6 to 8 weeks, 1 ppp</td>
<td>8 to 10 weeks, 1 to 2 ppp</td>
<td>8 to 10 weeks, 4 to 5 ppp</td>
</tr>
<tr>
<td>not recommended</td>
<td>Pythium, Spider Mites</td>
<td></td>
<td>5 to 6 weeks, 1 ppp</td>
<td>6 to 7 weeks, 1 ppp</td>
<td>10 to 12 weeks, 3 ppp</td>
</tr>
<tr>
<td>none</td>
<td>Very easy to grow.</td>
<td></td>
<td>5 to 7 weeks, 1 ppp</td>
<td>6 to 9 weeks, 3 ppp</td>
<td></td>
</tr>
<tr>
<td>not recommended</td>
<td>Spider Mites, Root Rot</td>
<td></td>
<td>10 to 12 weeks, 1 ppp</td>
<td>12 to 16 weeks, 2 to 3 ppp</td>
<td>14 to 18 weeks, 3 to 5 ppp</td>
</tr>
<tr>
<td>not recommended</td>
<td>Spider Mites, Pythium</td>
<td></td>
<td>10 to 12 weeks, 1 ppp, staked</td>
<td>12 to 16 weeks, 2 to 3 ppp, trellised</td>
<td>14 to 18 weeks, 3 to 5 ppp, trellised</td>
</tr>
<tr>
<td>none</td>
<td>Mites</td>
<td></td>
<td>8 to 10 weeks (varies seasonally), 1 ppp</td>
<td>10 to 12 weeks (varies seasonally), 1 to 3 ppp</td>
<td>12 to 14 weeks (varies seasonally), 3 to 5 ppp</td>
</tr>
</tbody>
</table>

*Temperature needs day/night:* During rooting keep soil temperature measured in the liner at 70°F/21°C until cuttings are well-rooted. After planting the liner, keep temperature up until roots have developed nicely. Afterward follow recommendations. The use of “Cool Morning” treatments will improve plant quality, flower and foliage color, and plant habit and harden the plants. Lower the temperature by 6-12°F/4-6°C 2 hours before sunrise until 2-3 hours after sunrise. Start treatments after plants are rooted in, well-branched and cover the media (reach the pot edges). To avoid delayed flowering, keep the average day temperature under a close watch and if necessary, increase night temperatures. Finishing of the crop depends on the average day temperature, and positive or negative DIF methods as well as “Cool Morning” can be used to improve plant quality.
<table>
<thead>
<tr>
<th>Crop</th>
<th>Series/Varity</th>
<th>Media pH</th>
<th>Fertilizer Needs</th>
<th>Watering</th>
<th>Temperature Needs Day / Night</th>
<th>Pinch after Transplant (unpinched liners)</th>
<th>Light Levels in Foot Candles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Osteospermum</td>
<td>Osteospermum hybrid</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>dry regularly between waterings</td>
<td>59-76°F/35-55°F 15-24°C/2-13°C</td>
<td>recommended</td>
<td>5,000 to 9,000</td>
</tr>
<tr>
<td>Osteospermum</td>
<td>Daisy Falls™ Osteospermum ecklonis</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>dry regularly between waterings</td>
<td>50-75°F/40-60°F 15-24°C/4-16°C</td>
<td>optional</td>
<td>5,000 to 8,000</td>
</tr>
<tr>
<td>Osteospermum</td>
<td>FlowerPower™ Compact, FlowerPower™ Spider, Zion™ Osteospermum ecklonis</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>dry regularly between waterings</td>
<td>60-65°F/35-52°F 16-18°C/2-11°C</td>
<td>recommended</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td>Pericallis</td>
<td>Senetti® Senecio x hybrid</td>
<td>5.5-6.0</td>
<td>medium 260 PPM</td>
<td>light</td>
<td>55-75°F/55-75°F 13-24°C/13-24°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td>Petunia</td>
<td>Petunia cultivars 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>Petunia</td>
<td>Petunia cultivars 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>Petunia</td>
<td>Petunia cultivars 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>Phlox</td>
<td>Phlox cultivars 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>Portulaca</td>
<td>Portulaca oleracea 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>Salvia</td>
<td>Salvia cultivars 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>Sanvitalia</td>
<td>Sanvitalia procumbens 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>
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* 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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<tr>
<th>Plant Growth Regulators (PGR)</th>
<th>Pests and Fungal Diseases</th>
<th>Comments</th>
<th>4 to 5-inch 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>Cycocel 750-1,500 PPM (S), Cycocel 750-1,500 PPM (D), Sumagic 5-10 PPM (S), 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/Cycocel (S), or low-level Bonzi 0.5-1 PPM (D)</td>
<td>Aphids, Thrips, Botrytis, Pythium</td>
<td></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>Cycocel 1,000 PPM + B-Nine 2,500 PPM tank mix (S), Sumagic 5-10 PPM (S), Cycocel 750-1,500 PPM (D), Sumagic 0.5-1 PPM (D), Bonzi 0.5-3 PPM (D)</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 to 4 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 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></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>
</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 overwatering.</td>
<td>5 to 6 weeks, 1 ppp</td>
<td>6 to 8 weeks, 1 to 2 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></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>
</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 8-12°F/4-6°C 2 hours before sunrise until 2-3 hours after sunrise. Start treatments after plants are rooted in, well-branched and cover the media (reach the pot edges). To avoid delayed flowering, keep the average day temperature under a close watch and if necessary, increase night temperatures. Finishing of the crop depends on the average day temperature, and positive or negative DIF methods as well as “Cool Morning” can be used to improve plant quality.
## 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>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/62-65°F/20-26°C/17-18°C</td>
<td>yes</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/50-55°F/18-21°C/10-13°C</td>
<td>optional</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td>Trixi²</td>
<td>Trixi recipes</td>
<td>5.4-5.8</td>
<td>200-250 PPM N/EC 1.8-2.0</td>
<td>keep constantly moist</td>
<td>70-75°F/55-60°F/21-24°C/13-16°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/60-65°F/18-24°C/16-18°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/60-65°F/18-24°C/16-18°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
</tbody>
</table>

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.
### Temperature needs day/night:

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

### CROP TIME FROM ROOTED CUTTING/PLANTS PER POT (PPP)

<table>
<thead>
<tr>
<th>Plant Growth Regulators (PGR)</th>
<th>Pests and Fungal Diseases</th>
<th>Comments</th>
<th>4 to 5-inch (10 to 15-cm) Pots, Quarts</th>
<th>6-inch (15-cm) Pots, Gallons</th>
<th>10 to 12-inch (25 to 30-cm) Tubs or Baskets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sumagic 5-10 PPM (S), Bonzi 10-20 PPM (S)/Bonzi 0.5-1 PPM (D)</td>
<td>Botrytis, Pythium, Phytophthora</td>
<td>Start late Spring when day length increases and temperatures rise. High light and warm temperatures will improve flowering, branching and plant development. 6 to 7 weeks, 1 ppp</td>
<td>8 to 10 weeks, 1 to 2 ppp</td>
<td>9 to 12 weeks, 4 to 5 ppp</td>
<td></td>
</tr>
<tr>
<td>none</td>
<td>Depends on the Mix. B-Nine 2,500-3,500 PPM (S), Sumagic 5-10 PPM (S)</td>
<td>Cool temperatures and high light levels will improve plant quality. Pinch as needed for improved plant habit. Watch for Fe deficiency. Cool temperatures and high light levels will improve plant quality. Pinch as needed for improved plant habit. Watch for Fe deficiency. 5 to 6 weeks, 1 ppp</td>
<td>5 to 6 weeks, 1 to 2 ppp</td>
<td>8 to 10 weeks, 3 to 4 ppp</td>
<td></td>
</tr>
<tr>
<td>Depends on the Mix. B-Nine 2,500-3,500 PPM (S), Sumagic 0.25-0.50 PPM (D), Bonzi 2-4 PPM (D)</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. 5 to 7 weeks, 1 ppp</td>
<td>6 to 9 weeks, 1 ppp</td>
<td>9 to 11 weeks, 3 to 5 ppp</td>
<td></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. 6 to 7 weeks, 1 ppp</td>
<td>7 to 9 weeks, 1 ppp</td>
<td>8 to 10 weeks, 3 to 5 ppp</td>
<td></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. 6 to 7 weeks, 1 ppp</td>
<td>7 to 9 weeks, 1 ppp</td>
<td>8 to 10 weeks, 3 to 5 ppp</td>
<td></td>
</tr>
</tbody>
</table>

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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 8-12°F/4-6°C 2 hours before sunrise until 2-3 hours after sunrise. Start treatments after plants are rooted in, well-branched, and cover the media (reach the pot edges). To avoid delayed flowering, keep the average day temperature under a close watch and if necessary, increase night temperatures. Finishing of the crop depends on the average day temperature, and positive or negative DIF methods as well as “Cool Morning” can be used to improve plant quality.
## Perennials Finishing Guide

### ROOTING & FINISHING

<table>
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<tr>
<th>Crop</th>
<th>Series/Variety</th>
<th>Media pH</th>
<th>Fertilizer Needs</th>
<th>Watering</th>
<th>Temperature Needs Day / Night</th>
<th>Pinch after Transplant (unpinched liners)</th>
<th>Light Levels in Foot Candles</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Delosperma</strong></td>
<td>Lido™</td>
<td>5.8-7.0</td>
<td>very low</td>
<td>very low</td>
<td>55-90°F/40-70°F</td>
<td>no</td>
<td>7,000+</td>
</tr>
<tr>
<td><strong>Dianthus</strong></td>
<td>Carmen™</td>
<td>6.2-6.5</td>
<td>100-150 PPM N/EC</td>
<td>grow on the dry side</td>
<td>65-70°F/50-55°F 18-21°C/10-13°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Dianthus</strong></td>
<td>Dianthalot™</td>
<td>6.2-6.5</td>
<td>100-150 PPM N</td>
<td>keep hydrated</td>
<td>65-70°F/50-55°F 18-21°C/10-13°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Dianthus</strong></td>
<td>Early Love™</td>
<td>6.2-6.5</td>
<td>100-150 PPM N/EC</td>
<td>grow on the dry side</td>
<td>65-70°F/50-55°F 18-21°C/10-13°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Dianthus</strong></td>
<td>EverLast™</td>
<td>6.2-6.5</td>
<td>100-150 PPM N/EC</td>
<td>grow on the dry side</td>
<td>65-70°F/50-55°F 18-21°C/10-13°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Dianthus</strong></td>
<td>Oscar®,</td>
<td>6.2-6.5</td>
<td>100-150 PPM N/EC</td>
<td>grow on the dry side</td>
<td>65-70°F/50-55°F 18-21°C/10-13°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Dianthus</strong></td>
<td>Peach Party™</td>
<td>6.2-6.5</td>
<td>100-150 PPM N/EC</td>
<td>grow on the dry side</td>
<td>65-70°F/50-55°F 18-21°C/10-13°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Dianthus</strong></td>
<td>Pink Kisses™</td>
<td>6.2-6.5</td>
<td>100-150 PPM N/EC</td>
<td>grow on the dry side</td>
<td>65-70°F/50-55°F 18-21°C/10-13°C</td>
<td>optional based on liner</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Dianthus</strong></td>
<td>Purple Wedding™</td>
<td>6.2-6.5</td>
<td>100-150 PPM N/EC</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>Gaura</strong></td>
<td>Belleza*</td>
<td>5.8-6.2</td>
<td>200-250 PPM N/EC</td>
<td>keep constantly moist</td>
<td>65-75°F/50-60°F 18-24°C/10-16°C</td>
<td>yes</td>
<td>5,000 to 6,000</td>
</tr>
<tr>
<td><strong>Lavandula</strong></td>
<td>Sweet Dreams™</td>
<td>5.8-6.2</td>
<td>100-150 PPM N</td>
<td>moderate</td>
<td>50-90°F/38-68°F 15-32°C/3-20°C</td>
<td>yes</td>
<td>5,000 to 7,000</td>
</tr>
<tr>
<td><strong>Lavender</strong></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/38-60°F 15-23°C/3-15°C</td>
<td>yes</td>
<td>5,000 to 9,000</td>
</tr>
</tbody>
</table>

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

*Fertilizer needs*: Consult with grower on best fertilizer 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.

*Temperature Needs Day / Night*: Ideal temperature range for the plant.

*Pinch after Transplant (unpinched liners)*: Yes or no based on plant development.

*Light Levels in Foot Candles*: Recommended light levels for optimal plant growth.
<table>
<thead>
<tr>
<th>Plant Growth Regulators (PGR)</th>
<th>Pests and Fungal Diseases</th>
<th>Comments</th>
<th>4 to 5-inch (10 to 15-cm) Pots, Quarts</th>
<th>6-inch (15-cm) Pots, Gallons</th>
<th>10 to 12-inch (25 to 30-cm) Tubs or Baskets</th>
</tr>
</thead>
<tbody>
<tr>
<td>none</td>
<td></td>
<td></td>
<td>12 to 16 weeks, 1 ppp</td>
<td>16 to 20 weeks, 3 ppp</td>
<td></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), Bonzi 2-5 PPM (S); PGRs are optional.</td>
<td>Spider Mites, Rust, Fusarium</td>
<td>Pinch when bud is visible and side shoots start to develop. Cool temperatures and high light levels will improve plant quality.</td>
<td>10 to 18 weeks (varies seasonally), 1 ppp</td>
<td>12 to 20 weeks (varies seasonally), 2 ppp</td>
<td>12 to 20 weeks (varies seasonally), 4 to 5 ppp</td>
</tr>
<tr>
<td>B-Nine 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>B-Nine 2.500 PPM (S), Bonzi 2-5 PPM (S); PGRs are optional.</td>
<td>Spider Mites, Rust, Fusarium</td>
<td>Pinch when bud is visible and side shoots start to develop. Cool temperatures and high light levels will improve plant quality.</td>
<td>14 to 20 weeks (varies seasonally), 1 ppp</td>
<td>16 to 22 weeks (varies seasonally), 2 ppp</td>
<td>16 to 22 weeks (varies seasonally), 4 to 5 ppp</td>
</tr>
<tr>
<td>B-Nine 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), 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></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>
<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>not recommended</td>
<td>Spider Mites, Fusarium</td>
<td></td>
<td>14 to 16 weeks, 1 ppp</td>
<td>16 to 20 weeks, 1 to 2 ppp</td>
<td></td>
</tr>
<tr>
<td>none</td>
<td>Rosemary Beetle, Pythium, Rhizoctonia</td>
<td>Grow cool and on the dry side.</td>
<td>8 to 10 weeks, 1 ppp</td>
<td>10 to 12 weeks, 1 to 2 ppp</td>
<td>10 to 13 weeks, 3 to 4 ppp</td>
</tr>
</tbody>
</table>

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