Keeping It Fresh: NEW Varieties for 2020
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Add a Little COLOR!
Take a break: use your creativity to fill in the white space.

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North Carolina Farms
2019-2020 | Starter Plant Catalog
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11 Bougainvillea
14 Chlorophytum Spider Plant
15 Belgian Garden Mums
16 Christmas Cactus
17 Hedera Helix Ivy
18 Yoder Pot Mums

Fall Sales

15 Belgian Garden Mums
38 Christmas Cactus
25 Hedera Helix Ivy
52 Succulents
40 Yoder Pot Mums
**Ficis Pumila**

Native to Eastern Asia, this climbing plant prefers partial shade, but it can grow in full sun. "Creeping Fig" (or its miniature brother Quercifolia) can be grown as a perennial houseplant, but it thrives outdoors and is winter hardy through zone 7.

<table>
<thead>
<tr>
<th>Crop</th>
<th>Time</th>
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<tbody>
<tr>
<td>4&quot;</td>
<td>4-6 weeks</td>
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<table>
<thead>
<tr>
<th>Light</th>
<th>Any</th>
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<table>
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<tr>
<th>Night temp</th>
<th>45°</th>
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<tr>
<th>Water usage</th>
<th>Moderate</th>
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**Moss**

*Selaginella kraussiana* is a lesser clubmoss native to tropical Africa. This plant is a low-growing groundcover that's hardy through zone 7. It can be grown as a houseplant and is one of the best-selling terrarium plants on the market.

Maintain a high humidity above 50%. Do not allow to dry out between waterings. Fertilize sparingly, as this plant is easily damaged. Maintain a pH between 6.1 - 7.8.

<table>
<thead>
<tr>
<th>Crop</th>
<th>Time</th>
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<tbody>
<tr>
<td>4&quot;</td>
<td>6-8 weeks</td>
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<tr>
<th>Light</th>
<th>Partial Sun or Shade</th>
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<table>
<thead>
<tr>
<th>Night temp</th>
<th>50°</th>
</tr>
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<table>
<thead>
<tr>
<th>Water usage</th>
<th>Heavy</th>
</tr>
</thead>
</table>

**Oxalis**

Native to North America and hardy through zone 7, Oxalis can be used in landscape applications or in hanging basket production. Unlike other Oxalis varieties, these sterile varieties are non-invasive.

Maintain a high humidity, but allow the soil to become visibly dry between waterings. Use a light feeding program (150 ppm) with a balanced fertilizer.

<table>
<thead>
<tr>
<th>Crop</th>
<th>Time</th>
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<tr>
<td>4&quot;</td>
<td>4-6 weeks</td>
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<tr>
<th>Crop</th>
<th>Time</th>
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<tr>
<td>10&quot;</td>
<td>8-10 weeks</td>
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<table>
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<tr>
<th>Light</th>
<th>Full to Partial Sun</th>
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<th>Night temp</th>
<th>60°</th>
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<tr>
<th>Water usage</th>
<th>Moderate</th>
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**Non-Patented Petunias**
*Imagination Series: see page 47*

- Fledge
- Lord Drinian
- Polly Pink
- Rathmandu

**Non-Patented Calibrachoa**
*See page 13*

- Peach
- White

**Non-Patented Thunbergia**
*See page 54*

- Pink
- Yellow Eye

**Patented New Guinea Impatiens**
*See page 42*

- Bicolor Red
- Fire
- Bold Red
- Tangerine
**Acalypha**

Native to Hawaii and other South Pacific areas, this plant mixes well with other warm-weather, bright-light annuals like Coleus, Calibrachoa, and Bacopa. A well-grown hanging basket can have dozens of fuzzy red catkin-style blooms, also called *firetails*.

- **4" crop time**: 6-8 weeks
- **10" crop time**: 8-10 weeks
- **Light**: Full sun
- **Night temp**: 60°
- **Water usage**: Moderate-Heavy
- **Bloom period**: Spring, Summer, Fall

**Start with a constant-but-low feed program of 150 ppm N and move to 200 ppm N as the days lengthen in the spring. If the plants develop yellowing at the tips of the leaves, pH level is the first thing to check. A pH of no more than 6 is important to prevent iron deficiency.**

**Non-Patented**

**Chenille Firetail**

**Whiteflies and spider mites**

**Ajuga**

This perennial landscape plant is native to Europe. With a fast-growing, tight-mounding habit approx. 6 to 8 inches tall, it makes a great combination plant or ground cover. Ajuga is a creeping evergreen plant, so it quickly fills in bare areas and chokes out weeds, replacing them with striking foliage. Our Ajuga are all cold-hardy and very easy to care for.

- **4" crop time**: 6-8 weeks
- **10" crop time**: 8-10 weeks
- **Light**: Partial sun
- **Night temp**: 50°- 60°
- **Water usage**: Light-Moderate
- **Bloom period**: Spring, Summer, Fall

**Grow in partial sun with moderate water. Use a constant feed program of 200 ppm N. Maintain a pH between 5.8 - 6.2.**

**Non-Patented Varieties**

- **Bronze**
- **Chocolate Chip**
- **Mahogany**

**Alsobia**

Originally found in Mexico, Guatemala, and Costa Rica, Alsobia are exotic and delicate-looking houseplants. This patent-free gesneriad has white, lace-like flowers that appear as the plants become fully rooted in the pot. Your customers may like that Alsobia prefer heavy shade, and you will love a plant that grows well underneath gutters. Alsobia can be used as landscaping plants, and they also work well in small containers or hanging baskets. Non-patented.

- **4" crop time**: 6-8 weeks
- **10" crop time**: 10-12 weeks
- **Light**: Shade
- **Night temp**: 60°
- **Water usage**: Moderate
- **Bloom period**: Constant

**Use a balanced fertilizer on a constant feed program of 200 ppm N. Maintain a pH between 5.0 - 6.5.**

**Whiteflies and possibly aphids**

**Want even more?**

Follow us on these platforms for more growing tips, personal coaching, discount offers, access to availability, and shareable content. We look forward to seeing you online!

- **ncfarmsinc**
- **@TheNCfarms**
- **@TheNCfarms**
Alternanthera

**Joseph’s Coat** is a sun-loving annual that is perfect for landscape use. These patent-free plants tolerate sun or shade, but full sun will create richer color. Alternanthera have a mounding, shrubby habit and grow to a height of 10in-14in. The shorter day lengths of spring and fall yield richer colors. Red and yellow varieties work well together because they are the same height. Grow them pot tight in 1801s for landscape use with no PGRs or as edge plants in combination planters.

*Available in an assorted tray*

- **Use a well-drained soil and plant in full sun.** The amount of sunlight on the Alternanthera affects the color of the leaves. We recommend using a constant feed program of 200 ppm N. Maintain a pH between 5.5 - 5.8.

- **Whiteflies and possibly aphids**

Angelonia

**Summer Snapdragon** is native to Mexico and the West Indies, and has delicate-looking flowers along tall spikes. As an annual landscape plant, Angelonia has an upright habit and can reach up to 18 inches in height. The foliage is fragrant, smelling a bit like apples. Angelonia make good bedding plants and work in everything from borders to pots to window boxes.

*Non-patented varieties*

- Blue
- Pink
- Purple
- Raspberry
- White

*Patented varieties*

- Alonia Big Dark Pink
- Alonia Big Snow
- Alonia Big Violet
- Alonia Pink Flirt
- Alonia Snow Ball

*Use a constant feed program of 175-225 ppm N. Maintain a pH between 5.8 - 6.2.*

- **Whiteflies, aphids, mites, and thrips**

*4" crop time 6 weeks*  
*10" crop time 8-10 weeks*  
*Light Full sun*  
*Min night temp 60°*  
*Water usage Moderate*  
*Bloom period Spring/Fall*  

*Available in an assorted tray*
Argyranthemums

These shrub-like perennials are native to the Canary Islands. They maintain an upright habit with daisy-like blooms that attract butterflies and other pollinators all summer long. Blooms bouquet much like a Chrysanthemum and are about the size of a half dollar. They can be used in landscaping, flower beds, borders, window boxes, or containers and combination planters.

We also offer the following patented varieties:
- Angelic Baby Pink
- Angelic Burgundy
- Angelic Giant Pink
- Angelic Lemon Pastel
- Great Pink
- Beauty Yellow
- Everest
- Mars

These prolific bloomers are naturally found in tropic and subtropic areas, especially in the Americas. A well-grown hanging basket can have hundreds of blooms and dense, dark green foliage. Your customers will love how Bacopa cascade over the edge of a container. They can stand full sun to partial shade, but they do not tolerate heat well. They weather the summer best when mixed with other plants.

Use a constant feed program of 200 ppm N. Maintain a pH between 5.8 - 6.2. If the plants develop yellowing at the tips of the leaves, pH level is the first thing to check.

Bacopa

4" crop time 6 weeks
10" crop time 10 weeks
Light Full sun
Night temp 50°– 60°
Water usage Moderate-Heavy
Bloom period Constant

Non-patented varieties

Butterfly Yellow
Dana White

Double Begonias

Native to South and Central America, Africa, and southern Asia, these unique bloomers like the moist climate of a sub-tropical or tropical environment. This means that although the Begonia is a simple plant to care for, choosing the right location and watering them properly (moist soil, but not too wet) is essential to success. Begonias grow well in containers.

We also offer the following patented varieties:
- Compact White
- Double Indigo
- Double Lavender
- Double Snowball
- Great Regal Blue
- Great White Improved
- Dynamic White
- Pink
- Pink Heart Improved
- Violet
- White

Use a constant feed program of 200 ppm N. Maintain a pH between 5.5 - 6.2.

Aphids and powdery mildew

4" crop time 6 weeks
10" crop time 8-10 weeks
Light Partial sun/shade
Night temp 60°
Water usage Moderate
Bloom period Constant

Non-Patented Varieties

Charm Pink (Single bloom)
Cherry Blossom
Geneva Pink
Geneva Red
Lady Carol Red
Lady Francis Pink
Lady Snow White

Available in an assorted tray
Angel Wing Begonias

Native to tropical regions, our patent-free Angel Wing Begonias prefer **light, humid environments**. The more light exposure they receive, the more colorful their leaves will be. Your customers will love their versatility as a **houseplant** because it can be grown as a **dwarf** or as a **floor plant**.

- Place in **bright, indirect light** (but avoid full sun). Use a constant feed program of 150-200 ppm N. Maintain a **pH** between 5.8 - 6.2.
- Aphids, mealybugs, and powdery mildew

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<thead>
<tr>
<th>4&quot; crop time</th>
<th>6 weeks</th>
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<tr>
<td>10&quot; crop time</td>
<td>8-10 weeks</td>
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<td>Light</td>
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<tr>
<td>Partial sun</td>
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<td>Night temp</td>
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<td>Light</td>
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<td>Bloom period</td>
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</tr>
<tr>
<td>Constant</td>
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*Available in an assorted tray*

- **Benigo Pink**
- **Brazilian Lady**
- **Fannie Moser**
- **Lana**
- **Lois Burke**
- **Looking Glass**
- **Medora**
- **My Special Angel**
- **Pink Cane**
- **Richmondensis Pink**
- **Richmondensis White**
- **Sophia**

**Foreground: Torch**
**Background: Sunbrite Red**

*These Angel Wings love full sun!*

- **Sunbrite Pink**
- **Sunbrite Red**
- **Torch**
- **Torch Pink**
- **Frosty**
- **Lynda Dawn**
- **Miss Mummy**
- **Sinbad Pink**

*These Angel Wings have unusual foliage and the unique ability to branch and bloom from the same leaf node.*
**Begonias - Morocco Rhizomatous**

These flowering Begonias are mostly grown for their **unusual foliage**. Their textured leaves are red underneath and they boast a compact mounding habit that makes for beautiful **hanging baskets** or **floor pots**. Your customers will appreciate the diversity this plant brings to your retail space.

Use a **constant feed program of 150 ppm N** with a **balanced fertilizer** to maximize color development. Maintain a **pH between 6.0 - 6.5**.

- **Aphids and powdery mildew**

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<th>4&quot; crop time</th>
<th>6 weeks</th>
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<tbody>
<tr>
<td>10&quot; crop time</td>
<td>8-10 weeks</td>
</tr>
<tr>
<td>Light</td>
<td>Light shade</td>
</tr>
<tr>
<td>Night temp</td>
<td>60°</td>
</tr>
<tr>
<td>Water usage</td>
<td>Moderate</td>
</tr>
<tr>
<td>Bloom period</td>
<td>Constant</td>
</tr>
</tbody>
</table>

**Begonias - Rex**

**Painted-Leaf Begonias** are native to the tropical and subtropical regions of India, and they thrive in **highly humid** environments. These slow-growers have highly unusual, striking foliage with large, brightly-colored leaves. Grow these houseplants in **pots** or **hanging baskets**.

Use a **constant feed program of 150 ppm N** with a **balanced fertilizer** to maximize color development. Maintain a **pH between 6.0 - 6.5**.

- **Aphids and powdery mildew**

<table>
<thead>
<tr>
<th>4&quot; crop time</th>
<th>8 weeks</th>
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</thead>
<tbody>
<tr>
<td>10&quot; crop time</td>
<td>12 weeks</td>
</tr>
<tr>
<td>Light</td>
<td>Shade</td>
</tr>
<tr>
<td>Night temp</td>
<td>60°</td>
</tr>
<tr>
<td>Water usage</td>
<td>Light to moderate</td>
</tr>
<tr>
<td>Bloom period</td>
<td>Constant</td>
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*Only available in a mixed tray.*

**Record Sales!**
To keep up with demand, we've increased our stock and production capacity.
Basket Grass

While looking remarkably like Bridal Veil, Basket Grass “Variegated Bridal Veil” is a true grass and not a Wandering Jew. Perfect for retail houseplants and wholesale landscaping, its ability to tolerate both hot and cold temperatures makes it a versatile product to have in your garden center.

| 4" crop time | 6 weeks |
| 10" crop time | 10 weeks |
| Light | Full sun |
| Night temp | 50°– 60° |
| Water usage | Moderate |

Bidens

These sun-loving annuals have fern-leafed foliage and bright yellow flowers. Bidens bloom continuously and are self-cleaning. They are suitable for landscapes and mixed containers, and since they like moist soil, they can create a cover for bare, open areas such as ditches. Bidens also attract pollinators and butterflies, blooming from July to October.

| 4" crop time | 6 weeks |
| 10" crop time | 8-10 weeks |
| Light | Full sun |
| Night temp | 55°– 65° |
| Water usage | Moderate |
| Bloom period | Spring, Summer, Fall |

Patented varieties

Pretty in Pink

Not pictured:
- Yellow Crown
- Yellow Sunshine

Bougainvillea

Bougainvillea are full-sun plants native to Mexico. While producing loads of blooms in bright colors, they are evergreen perennials in zones 9-10 and grow as annuals everywhere else. Bougainvillea are very drought-resistant, and your customers may appreciate the fact that they can be grown in containers if your outdoor environment isn’t suitable year-round.

| 4" crop time | 6-8 weeks |
| 10" crop time | 10-20 weeks |
| Light | Full sun |
| Night temp | 60° |
| Water usage | Light-Moderate |
| Bloom period | Spring, Summer, Fall |

Non-Patented

Barbara Karst Red

Also available in an assorted tray Non-patented

Order online at ncfarmsinc.com  |  Fax your order to 704.289.6312  |  Call us at 800.436.6248
Ellepots are completely biodegradable paper pots. The paper lining keeps the soil from settling into the tray and compacting like loose-filled soil does. As the pots are filled with media, the soil is infused with compressed air. This combination of benefits supplies extra oxygen to the plant and aids in producing a strong, healthy root system. We have experienced a substantial improvement in rooting, even with plants that are slow to root or that have fine root systems.

When you place your unrooted order, simply ask for trays to match your cuttings. They’ll ship via FedEx Ground just before your unrooted cuttings arrive. ncfarmsinc.com/Ellepots

Need Greenhouse Supplies?

See page 58 for an overview of our supply of hard goods, or visit our website for a detailed list with images and pricing: ncfarmsinc.com/supplies
Calibrachoa are originally from South America. A nightshade similar to the Petunia, Calibrachoa produce an abundance of colorful, bell-like flowers. They have a trailing habit, so most growers prefer to use them in hanging baskets. They also work well in containers or as ground cover. Calibrachoa need minimal care and can be grown as a perennial in milder climates.

Use a well-drained soil with a balanced fertilizer and a constant feed program of 200 ppm N. Maintain a pH between 5.5 - 5.8. A pH higher than 6.5 will show iron deficiency. Optimal EC of 0.6 to 0.9 (using 2:1 Extraction Method). Avoid overwatering.

Fungus gnats, aphids, and thrips

Available in these assortments: General, Patriotic, Spring Fever, Tutti Frutti

<table>
<thead>
<tr>
<th>New '20</th>
<th>Bright Pink</th>
<th>Cardinal</th>
<th>Cherry Crush</th>
<th>Coral</th>
<th>Cream</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue</td>
<td>Bright Pink</td>
<td>Cardinal</td>
<td>Cherry Crush</td>
<td>Coral</td>
<td>Cream</td>
</tr>
<tr>
<td>Fuchsia</td>
<td>Hot Pink</td>
<td>Lemonade</td>
<td>Peach</td>
<td>Polar Pink</td>
<td>Purple Cow</td>
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<tr>
<td>Red</td>
<td>Royal Purple</td>
<td>Soft Pink</td>
<td>Soft Yellow</td>
<td>Sugar Plum</td>
<td>Violet</td>
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<tr>
<td>Watermelon</td>
<td>White</td>
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</table>

- Almond Blossom
- Banana
- Blue Legend
- Dark Pink Carnival
- Dark Red
- Deep Purple
- Mega Magenta
- Mega Pink
- Papaya
- Peach
- Red Improved
- Red Wine
- Snow
- Sunlight
- Sunset
- Ultra Purple
- Yellow

4" crop time 6 weeks
10" crop time 10 weeks

Light Full sun
Night temp 60°
Water usage Moderate-Heavy
Bloom Period Spring/Summer/Fall
### Candy Corn

**Manettia Luteo** (also called *Brazilian Firecracker*) is a fast-growing vine perfect for landscape applications on trellises, fences, or lattices, or hanging baskets both indoors and outside. This plant loads up with red-and-yellow blooms that resemble candy corn.

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<td>Night temp</td>
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<tr>
<td>Water usage</td>
<td>Light-Moderate</td>
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<tr>
<td>Bloom period</td>
<td>Spring, Summer, Fall</td>
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</table>

Use little water in winter months, but increase irrigation as the growing season begins to help them flourish. Allow the soil to dry between waterings to avoid fungus. Use a slow and steady constant feed of 150-200 ppm N. Maintain pH between 5.5 - 6.5.

Whiteflies, spider mites, and mealybugs.

### Carnation

This winter-hardy herbaceous perennial mounds and trails with abundant fragrant flowers perfect for landscapes, containers, and hanging baskets. Cutting them back frequently during winter months creates short and stocky plants for a burst of color in the spring.

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<td>4” crop time</td>
<td>6-8 weeks</td>
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<tr>
<td>10” crop time</td>
<td>10-12 weeks</td>
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<tr>
<td>Light</td>
<td>Partial/full</td>
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<tr>
<td>Night temp</td>
<td>45°</td>
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<tr>
<td>Water usage</td>
<td>Light-Moderate</td>
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<tr>
<td>Bloom period</td>
<td>Spring/Summer</td>
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Feed at 150–200 ppm N constant liquid feed program. Maintain a pH level between 5.5 and 6.0.

Not prone to pests, but watch for whiteflies and mealybugs.

### Chinese Lantern

With stunning maple leaf-shaped foliage with green and yellow markings and unique red-and-yellow lantern-shaped blooms, *Abutilon* make excellent trailing plants for hanging baskets. They are evergreen perennials in zones 9-10 and can be grown as annuals everywhere else.

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<td>Not recommended</td>
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<tr>
<td>10” crop time</td>
<td>8-10 weeks</td>
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<tr>
<td>Light</td>
<td>Full sun</td>
</tr>
<tr>
<td>Night temp</td>
<td>45°– 60°</td>
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<td>Water usage</td>
<td>Moderate</td>
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<tr>
<td>Bloom period</td>
<td>Spring/Summer</td>
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Feed 200 ppm N constant liquid feed program. Maintain a pH between 5.5 and 6.5.

Scales and whiteflies.

### Chlorophytum

Native to South Africa, *Spider Plants* are one of the best natural air filters for the home. Attractive leaves grow to 2 feet long with pups (new plantlets) hanging from mature plants. Just pluck off the pup to start a new plant. Your customers may like *Chlorophytum* because it's hard to kill, so it's an excellent starter plant for new gardeners or those lacking a green thumb.

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</thead>
<tbody>
<tr>
<td>4” crop time</td>
<td>6 weeks</td>
</tr>
<tr>
<td>10” crop time</td>
<td>8-10 weeks</td>
</tr>
<tr>
<td>Light</td>
<td>Bright/partial sun</td>
</tr>
<tr>
<td>Night temp</td>
<td>55°</td>
</tr>
<tr>
<td>Water usage</td>
<td>Moderate</td>
</tr>
</tbody>
</table>

Use a well-drained soil with a balanced fertilizer and a constant feed program of 200 ppm N. Maintain a pH between 5.5 - 6.5.

Not prone to pests, but watch for whiteflies, mites, and mealybugs.

### Cissus

*Grape Ivy* and *Oak Ivy* are fast-growing vines originally found in the tropics. Because they are tender annuals (unlike *Hedera Ivy*), market them as houseplants, similar to *Pothos*. The foliage has a shiny, florist quality that performs well in hanging baskets, combo baskets, and stand-alone pots. Cissus are easy to care for and are tolerant of low water and low light.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4” crop time</td>
<td>6 weeks</td>
</tr>
<tr>
<td>10” crop time</td>
<td>8 weeks</td>
</tr>
<tr>
<td>Light</td>
<td>Shade</td>
</tr>
<tr>
<td>Night temp</td>
<td>60°</td>
</tr>
<tr>
<td>Water usage</td>
<td>Light-Moderate</td>
</tr>
</tbody>
</table>

Use a well-drained soil with a balanced fertilizer on a constant feed program of 200 ppm N. Maintain a pH between 5.5 - 6.5. Optimal EC 0.6 to 0.9 (using 2:1 Extraction Method). Avoid overwatering.

Aphids.
Christmas Cactus

Native to Brazil, *Schlumbergera bridgesii* have unique blooms that last 7-8 weeks. To bloom them naturally by the holiday season (Thanksgiving to Christmas), **the best time to start is early summer**. Available for delivery May thru July, these Christmas Cacti are a choice product to have on hand if you are open in the winter.

<table>
<thead>
<tr>
<th>Crop Time</th>
<th>Bloom Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>4”</td>
<td>Winter (Days with 14+ hours of darkness)</td>
</tr>
<tr>
<td>10”</td>
<td>9 Months From 4” Pot</td>
</tr>
</tbody>
</table>

**Unlike other cactus, do not let Christmas Cactus dry out between waterings.** It does not like heat, but it thrives in a humid atmosphere. Do not place in a spot where the temperature constantly changes (near air vents, heaters, or doors). The ideal time to fertilize is between the months of April and September, before budding begins. Use a one-half strength balanced soluble fertilizer with trace elements. **Stop fertilization during the late summer for greater bud production in the fall.**

**Mealybugs, spider mites and aphids**

Have left-over four-inch pots at the end of the season? Transplant unsold plants to larger containers and continue growing them out. Four inch pots make perfect starters for ten- or twelve-inch baskets or floor pots. With a little care, that unsold pot can grow into your best-selling monster basket next season.

**Now Available: Patented Flame Series**

- **Cream**
- **Peach**
- **Pink**
- **Red**
- **Scarlet**
- **White**

Our starter cacti come rooted with two plants per cell and at least two pads per plant.

Cleome

Native to South America, our cultivars are part of the Danziger breeding program. These annual **sun-lovers** function really well outdoors in warm-weather climates, attracting both hummingbirds and butterflies. These plants boast excellent branching and strong, upright structures and are best used in **landscapes** as a border or edge crop, in **floor pots**, or in **combination planters**.

**Use a constant feed program of 200-300 ppm N. Maintain a pH between 5.7- 6.3 and an EC level between 1-2.**

**Whiteflies and aphids**

<table>
<thead>
<tr>
<th>Crop Time</th>
<th>Light</th>
<th>Night Temp</th>
<th>Water Usage</th>
<th>Bloom Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>4”</td>
<td>Full sun</td>
<td>60°</td>
<td>Moderate</td>
<td>Spring, Summer, Fall</td>
</tr>
<tr>
<td>10”</td>
<td>Full sun</td>
<td>60°</td>
<td>Moderate</td>
<td>Spring, Summer, Fall</td>
</tr>
</tbody>
</table>

*All Cleome varieties are patented.*
Coleus

Native to regions from Africa to southeast Asia to Australia, these knee-high plants love both full sun and shade locations. Coleus are perfect for combination baskets, containers, or borders and quickly fill their space with color. They mix well with Verbena, Calibrachoa, and Bacopa since all of these varieties have similar cultural needs. If they flower in the summer, you can either remove the spikes or leave them to attract pollinators. All of our Coleus are patent-free.

Use a well-drained soil with a well-balanced fertilizer and a constant feed program of 200 ppm N. Maintain a pH between 5.8 - 6.2. The EC should be between 1.5-2.0 mmhos (2:1 dilution).

Aphids, whiteflies, and downy mildew

4" crop time 6 weeks
10" crop time 8-10 weeks
Light Full sun
Night temp 60°
Water usage Moderate

Available in these assortments:
All Mixed Up (many varieties, no label)
Assorted Coleus (3 varieties, labeled)

*No URC for starred varieties

4" crop time 6 weeks
10" crop time 8-10 weeks
Light Full sun
Night temp 60°
Water usage Moderate

Available in these assortments:
All Mixed Up (many varieties, no label)
Assorted Coleus (3 varieties, labeled)

*No URC for starred varieties
Order online at ncfarmsinc.com | Fax your order to 704.289.6312 | Call us at 800.436.6248

**Green/Yellow/Orange**

- Alabama
- Bonnie Gold
- Defiance
- French Fry
- Gays Delight
- Gold Lace
- Inky Fingers
- Mardi Gras
- Pineapple
- Wild Lime

**Many-colored**

- Beauty Of Lyon
- Burgundy Ruffles
- Cracklin' Rosie
- Jade
- Kingwood Karnival
- Magenta Sunrise
- Olympic Torch
- Pink Ruffles
- Solar Sunrise
- Stormy Weather
- Sunglow Pink
- Trailing Pink
- Velvet Pistachio

For tips on effective prevention of Downy Mildew, visit our blog: ncfarmsinc.com/blog/Combat-Downy-Mildew
Coreopsis

Tickseed are **easy-care landscaping plants** native to North, Central, and South America. With a compact mounding habit, evergreen foliage, and blooms that look similar to daisies, your customers will love how Coreopsis **attract butterflies** while remaining **deer- and rabbit-resistant**.

<table>
<thead>
<tr>
<th>4&quot; crop time</th>
<th>5-7 weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light</td>
<td>Full sun</td>
</tr>
<tr>
<td>Night temp</td>
<td>55°–65°</td>
</tr>
<tr>
<td>Water usage</td>
<td>Moderate</td>
</tr>
<tr>
<td>Bloom period</td>
<td>Spring/Summer/Fall</td>
</tr>
</tbody>
</table>

**Use a well-drained soil** with a rate of **150-200 ppm N** with each irrigation and adjust rates as needed. Leach with clear water to avoid fertilizer salt buildup. Keep moist, but not over-watered, to prevent root damage. **Maintain a pH between 5.8 - 6.2.**

Aphids

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Cuphea Mexican Heather

This abundant bloomer is native to Mexico, Guatemala, and Honduras. In warmer climates it’s considered a perennial and may self-sow each year; the seedlings can be easily transplanted. Cuphea's dense green foliage and small, colorful flowers make it a lovely **landscape** or **container plant**. It attracts butterflies, hummingbirds, and other pollinators.

**Use a well-drained soil** with a **balanced fertilizer** on a **constant feed program of 150-200 ppm N**. **Maintain a pH between 6.0 - 6.5.** Cuphea may develop oedema and leaf yellowing if over-watered.

Aphids, thrips, and whiteflies

<table>
<thead>
<tr>
<th>4&quot; crop time</th>
<th>6 weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>10&quot; crop time</td>
<td>8-10 weeks</td>
</tr>
<tr>
<td>Light</td>
<td>Full sun</td>
</tr>
<tr>
<td>Night temp</td>
<td>60°</td>
</tr>
<tr>
<td>Water usage</td>
<td>Moderate</td>
</tr>
<tr>
<td>Bloom period</td>
<td>Constant</td>
</tr>
</tbody>
</table>

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Diascia

Native to southern Africa, Diascia have a compact growth habit with good branching, and they produce large flowers in early spring through summer. Use them in **hanging baskets, combo planters**, or as a **floriferous groundcover**. Your customers will love that Diascia are **easy to grow** and **attract pollinators**. Regular watering is needed during drought, but only when the soil feels dry.

*All Diascia varieties are patented.*

**Use a well-drained soil** with a **constant feed of balanced fertilizer (200 ppm N)** that contains average levels of micronutrients with a slightly increased level of iron. **Keep moist, but not over-watered, to prevent root damage. Maintain a pH between 5.5 - 6.0** and an **EC between 0.6 - 0.9.**

Aphids and whiteflies

<table>
<thead>
<tr>
<th>4&quot; crop time</th>
<th>5-7 weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light</td>
<td>Full sun/partial shade</td>
</tr>
<tr>
<td>Night temp</td>
<td>52°–59°</td>
</tr>
<tr>
<td>Water usage</td>
<td>Moderate</td>
</tr>
<tr>
<td>Bloom period</td>
<td>Spring/Fall</td>
</tr>
</tbody>
</table>

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**Patented Varieties**

Clockwise Top: Papaya, Classic White, Ruby

**Non-Patented Varieties**

Purple, White, Wine
**Dorotheanthus**

Livingstone Daisies are native to South Africa and are very easy to grow. These unique low-growing plants produce a small red flower and can be used alone or in combination planters. As heat- and drought-tolerant plants, Dorotheanthus make excellent groundcovers as well. Non-patented.

**Double Impatiens**

Originally from Africa and parts of Asia, the Impatiens genus is now widely found in the northern hemisphere. These Impatiens have double rosebud-type flowers on plants cultivated to grow full and compact. They are used as garden annuals, but they can also be planted in containers. Your customers may appreciate that they do not need a plant growth regulator to stay compact.

Use a well-drained soil with good water-holding capacity. Use a well-balanced fertilizer at a constant feed of 150-200 ppm N. (Leach periodically with clear water to prevent salt accumulation.) High ammonia levels will cause excessive vegetative growth and inhibit flowering. Too wet and un-aerated media will cause stretched plants and reduce flowering. Maintain a pH between 5.8 - 6.2.

Aphids, thrips, mites, and downy mildew

**Dracaena Indivisa**

The Spike Plant is a tropical upright cane with cascading leaves that weep over slightly as they grow. This drought-tolerant plant is commonly used in combination plantings to add texture and height to the mix. Dracaena are low maintenance and boast an attractive foliage spread. Grow our well-rooted starters in a 3-4” pot for 4-6 weeks before adding them to mixed containers. Non-patented.

4” crop time 5-7 weeks
10” crop time 8-10 weeks
Light Partial sun
Night temp 62°- 64°
Water usage Light/moderate
Bloom period Spring/Summer/Fall

**Non-Patented Varieties**

- Orange
- Pink Aroma
- Pink Energy
- Princess Pink
- Pure White
- Red Crimson

**Patented varieties:**

Musica Series

- Bicolor Cherry
- Bicolor Dark Red
- Bicolor Pink
- Electric Purple
- Elegant Red
- Fine Purple
- Orange
- Pink Aroma
- Pink Energy
- Princess Pink
- Pure White
- Red Crimson

**Use a constant feed program of 200 ppm N.** Watch EC levels and maintain 1.8-2.2 mS/cm. If your EC level gets too high, you can leach with clear water to avoid fertilizer salt build-up. A pH between 5.6 and 6.2 is important for the healthiest plant color.

No significant pest problems

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**Duranta Erecta Aurea**

Golden Dewdrop or Sky Flower is a bushy, mounding plant that is used widely in landscaping. Its vibrant golden foliage makes a perfect accent for beds, patio containers, or combination planters. This tough little plant is both heat- and drought-tolerant and can survive temperatures as low as 25°F. Non-patented.

Use a constant feed program of 150-200 ppm N. A pH between 6.0 and 6.5 is important for the healthiest plant color.

**Episcia**

Flame Violets are native to North and South America. Their love of shade and creeping growth habit make them outstanding houseplants. Typically grown for their unique foliage, Episcia can flower for the majority of the year with at least 8 hours of bright, indirect light (but avoid full sun). These fuzzy plants can be high-maintenance, but your customers will love the end result. Non-patented.

Use a ¼ dilution of balanced fertilizer every two weeks during the summer. Maintain a pH between 5.0 - 6.5. Water moderately in the summer and sparingly in the winter, making sure to use a well-draining soil. Episcia love high humidity, but they do not tolerate saturated soil or water on their leaves, so be careful when watering and allow the soil to dry between waterings.

**Evolvulus**

Native to South America, these creeping plants have unusual blue flowers which make them stand out. Their leaves and stems are covered in tiny gray hairs similar to peach fuzz. Their blooms have a short lifespan, but the plant continually produces more, which makes this a great hanging basket or landscape plant. Evolvulus tolerate full sun, are easy to grow, and are hardy in zones 8-11. Non-patented.

Use a constant feed program of 200 ppm N. Maintain a pH between 5.5 and 6.5 to prevent iron deficiency. Allow the soil to completely dry between waterings.

**Fittonia**

The Nerve Plant is a tropical foliage variety native to Peru and other areas of South America. Its low-growing, mounding habit boasts unique green leaves with silver veins that add diversity to your garden center’s selection. Fittonia are very easy to grow and require very little maintenance. Their versatility allows for a variety of uses: terrariums, houseplants, hanging baskets, smaller pots, and outdoor applications in warmer zones.

Use a constant-but-low feed program of 200 ppm N. A pH between 5.5 and 6.5 is important for the healthiest plant color.
**Ferns**

Native to Australia, Ferns have become a mainstay for hanging basket sales. With moderate attention, these durable baskets will last all summer on your customer’s front porch. Non-patented.

Use a well-drained soil with a high capacity for holding water and a constant feed program of 150-200 ppm N. Maintain a pH between 5.0 - 5.5.

Brown scales, caterpillars, and whiteflies

**Fern Planting Schedule**

<table>
<thead>
<tr>
<th>Month</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan-Mar</td>
<td>Pre-order Fern liners or 4” pots.</td>
</tr>
<tr>
<td>June</td>
<td>Plant liners in 4” pots.</td>
</tr>
<tr>
<td>Sept</td>
<td>Transplant 4” pots to final container.</td>
</tr>
<tr>
<td>Spring</td>
<td>Make the competition look silly with your big, showy baskets.</td>
</tr>
</tbody>
</table>

**Fuchsia**

Native to the Caribbean, these morning-sun plants are known for the oddly-shaped blooms that drop down from the foliage to show off during the spring. When planning your crop, be sure to choose trailing varieties for hanging baskets and upright varieties for 4” pots. Your customers will love the added color and wide spreads Fuchsia bring to your Mother’s Day offerings. Non-patented.

Use a constant feed program of 200 ppm N. Maintain a pH between 5.5 - 6.2 to avoid iron deficiency. Fuchsia bloom naturally as the days lengthen. For an early crop, you can light your plants starting in late winter to force blooming early in the spring.

Aphids, thrips, mealybugs, and whiteflies

**Use a well-drained soil with a high capacity for holding water and a constant feed program of 150-200 ppm N. Maintain a pH between 5.0 - 5.5.**

Available as an assorted tray.

**Upright Varieties**

- **Dollar Princess**
- **Gartenmeister**
- **Jingle Bells**
- **Winston Churchill**

**Trailing Varieties**

- **Blue Eyes**
- **Dark Eyes**
- **Deep Purple**
- **Lena**
- **Marinka**
- **Swingtime**

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Geraniums

Found naturally in the eastern Mediterranean and other temperate regions of the world, Geraniums are known for their compact foliage, brilliant blooms, and easy-care personalities. These versatile plants are suitable for **4” and 6” pots** and **mixed containers**, but they can also be grown as **bedding plants** or as **hanging baskets** in full sun.

Fertilization is extremely important. Use a **well-drained soil** with a **balanced fertilizer** and a constant feed program of **200 ppm N**. Maintain a **pH** between **5.8 - 6.5** and an optimal **EC** of **0.75 - 1.0**.

**Aphids and thrips**

| 4” crop time | 6 weeks |
| 10” crop time | 8 weeks |
| Light | Full sun |
| Night temp | 60° |
| Water usage | Moderate |
| Bloom period | Constant |

**Patented Varieties:**

**Ivy Geraniums**
- Global Series
- Minicascade Series

**Zonal Geraniums**
- Candy Idols Series
- Maestro Idols Series
- Patriot Series
- Summer Idols Series

**Patriot Series**

- Bright Pink
- Bright Red
- Bright Violet
- Evening Glow
- Lavender Blue
- Rose Pink
- Salmon Chic
- Watermelon
- White

**Candy Idols**
- Bright Red
- Bright Pink
- Bright Violet
- Evening Glow
- Lavender Blue
- Rose Pink
- Salmon Chic
- Watermelon
- White

**Zonal Geraniums**
- Candy Idols Series
- Maestro Idols Series
- Patriot Series
- Summer Idols Series

For a complete list of varieties, visit [ncfarmsinc.com/geraniums](http://ncfarmsinc.com/geraniums)

Left: Candy Idols White Parfait
Below: Best-Selling Patriot Bright Red

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**Non-Patented Varieties**

**Scented Series**
- Apricot
- Attar of Roses
- Citriodorum
- Fragns
- Gardener’s Joy
- Lady Plymouth
- Orange Fizz
- Sweet Mimosa

**Valleyheart Series**

**NEW ’19**
- Apex Red
- Rhapsody Pink
- Sunrise Salmon

**Variegated Series**
- Mrs. Pollock
- Occold Shield
- Vancouver Centennial
- Wilhelm Langguth

**Ville de Paris Series**
- Bicolor
- Dark Pink
- Lilac
- Pink
- Red

**Regal Series**

Not Pictured:
- Empress of Russia
- Georgia Peach

Order online at ncfarmsinc.com | Fax your order to 704.289.6312 | Call us at 800.436.6248
Goldfish

From the tropical areas of Central and South America, Columnnea and Nematanthus vining plants have unusually-shaped blooms in reds, yellows, and oranges that make for lovely hanging baskets. Goldfish have a reputation for being fussy plants, but a little care to give them enough indirect light and not too much water goes a long way to help these exotic plants thrive. Non-patented.

<table>
<thead>
<tr>
<th>4&quot; crop time</th>
<th>8 weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>10&quot; crop time</td>
<td>15 weeks</td>
</tr>
<tr>
<td>Light</td>
<td>Bright Indirect/Filtered</td>
</tr>
<tr>
<td>Night temp</td>
<td>60°</td>
</tr>
<tr>
<td>Water usage</td>
<td>Light/moderate</td>
</tr>
<tr>
<td>Bloom period</td>
<td>Constant</td>
</tr>
</tbody>
</table>

*Only available in an assorted tray. We cannot accommodate requests for specific varieties.

Gynura

Purple Passion was originally discovered on the island of Java in Indonesia. Its unique leaves sport fuzzy hairs that give it a purple glow, and its trailing habit makes it an excellent choice for combination pots, hanging baskets, or bedding plants. The interesting foliage has kept Purple Passion in constant use as a houseplant for over 200 years, despite the odor of its blossom.

<table>
<thead>
<tr>
<th>4&quot; crop time</th>
<th>6 weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>10&quot; crop time</td>
<td>8-10 weeks</td>
</tr>
<tr>
<td>Light</td>
<td>Full shade</td>
</tr>
<tr>
<td>Night temp</td>
<td>60°</td>
</tr>
<tr>
<td>Water usage</td>
<td>Light</td>
</tr>
</tbody>
</table>

*Gynura are not available as URC.

Helichrysum Licorice Plant

Trailing Dusty Miller is a vigorous drought- and heat-tolerant plant with white fuzzy leaves on fast-growing, slightly upright vines. The Licorice Plant’s cascading foliage works well as an edge plant in combination baskets, but it also lends itself to 4 inch or 10 inch pots—a great choice for garden centers looking for diversity for their customers.

<table>
<thead>
<tr>
<th>4&quot; crop time</th>
<th>6 weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>10&quot; crop time</td>
<td>8-10 weeks</td>
</tr>
<tr>
<td>Light</td>
<td>Full sun</td>
</tr>
<tr>
<td>Night temp</td>
<td>60°</td>
</tr>
<tr>
<td>Water usage</td>
<td>Moderate</td>
</tr>
</tbody>
</table>

*Use a constant-but-low feed program of 200 ppm N. A pH between 5.8 and 6.2 is important for the healthiest plant color.
Heliotrope

Purple Marine are fantastic landscape plants for those who live in areas with hot, dry summers. They are heat tolerant, do not need much water, and provide attractive bushels of blooms. These purple flowers are very fragrant, and their mounding habit keeps the plant neat and clean.

Use a constant-but-low feed program of 200 ppm N. A pH between 5.5 - 6.5 is important for the healthiest plant color.

4" crop time 6 weeks
10" crop time 8-10 weeks
Light Full sun
Night temp 60°
Water usage Moderate
Bloom period Spring/Summer/Fall

Whiteflies and occasional aphids

Hibiscus

This very hardy, versatile plant has an upright shrub habit that can grow up to 6 feet tall when left alone. Hibiscus adapts itself to balcony gardens in cramped urban spaces and can be easily grown in pots as a creeper or hanging basket. In tropical conditions, it’s a perennial and flowers throughout the year. Hibiscus makes an excellent choice for growers who are just getting started. Non-patented.

Use a balanced fertilizer and a constant feed program of 200 ppm N. Maintain a pH between 5.5 - 6.2 and an optimal EC of 0.5 mmhos. Use PGRs to control height if greenhouse grown.

Whiteflies and mealybugs

Available in an assorted tray

Hedera Helix Ivy

Native to Europe, Scandinavia, and Russia and brought to the U.S. by colonial settlers, Hedera Helix Ivy are fast-growing, trailing plants known for the way they aggressively climb buildings and trellises and cascade from containers and hanging baskets. Also useful in topiaries and landscapes, there’s a reason these plants are top sellers year after year. Their attractive woody evergreen foliage and vigorous growth make them easy to care for and readily identifiable to the common eye.

Use a low-but-constant feed program of 200 ppm N once they’re well-rooted. Maintain a pH between 5.5 - 6.5.

Spider mites and aphids; root rot, botrytis, and bacterial blight

4" crop time 4-6 weeks (3 plant per pot)
10" crop time 8-10 weeks (7 plants per pot)
Light Partial Shade
Night temp 50° - 60°
Water usage Light-Moderate

Available in these 4" or 105 Assortments: Green Leaf, Variegated Leaf, or Mixed Assortment
Herbs

Our selection of patent-free Herbs is focused on varieties that are already popular: both for their **culinary use** and for their **distinct foliage**. These aromatic plants are easy sellers because of their versatility and high demand. Always popular in 4” pots, Herbs also make great additions to **combination baskets** because of their unique growing habits, which add mass to combinations.

Herbs like full sun and tolerate both cool and hot temperatures well, although warm temperatures can stretch growth habit. They prefer **well-drained soil** at a **pH of 5.5 - 6**. Take special consideration when using chemical sprays on culinary herbs. Feed at **150-200 ppm Nitrogen**. Pinch to shape plants as needed. Many Herbs are winter hardy to some degree; Basil and Stevia are not.

| 4" crop time | 6 Weeks |
| Light        | Full sun |
| Min night temp | 50° |
| Water usage   | Moderate |

**Whiteflies, aphids, and occasional mealybugs**

Available in an assorted tray.

We also offer Danziger’s patented Salvia Sally Fun and Splendens varieties. See our website for more information.
Ipomoea

Originating in Polynesia, **Sweet Potato vines** are now a mainstay in U.S. landscaping. These fast-growing sun-lovers are best used as **groundcovers, mixed container plants**, and cascading elements in **combination baskets**. With strong, vigorous growth and beautiful runners, Ipomoea will show off for your customers in any seasonal program.

- **Use a low-but-constant feed program of 200 ppm N.** Maintain a **pH between 5.8 - 6.2** and an **EC between 0.6 - 0.9.**

- **Aphids, whiteflies, thrips, and spider mites**

---

**Available in an assorted tray**

**We are certified to ship Ipomoea anywhere in the US and Canada.**

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Iresine Chicken Gizzard

The Iresine **Bloodleaf Plant** is native to Brazil and is an unusual, ever-colorful plant. It has glossy, oval leaves that measure 2 ½ inches across and are sure to set you apart from the competition. Chicken Gizzard makes a striking **houseplant**, but it can live outside as a **landscape annual** (or as a soft perennial in frost-free zones 10 and 11). The colorful leaves make it a unique choice for **combination planters** or **stand-alone baskets**.

- **Use a constant-but-low feed program of 150-200 ppm N.** A **pH between 6.0 and 6.5** is important for the healthiest plant color.

- **Spider mites and occasional mealybugs**

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### Non-Patented Varieties

- **Ace of Spades**
- **Blackie**
- **Compact Margie**
- **Margarita**
- **Tricolor**

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Jacobiania

**Justicia Carnea (Brazilian Plume)** are native to South America and sport green leaves with gray hairs. Their blooms are upward-facing tubular clusters that protrude from the tops of the growth and remain from spring through fall. The upright habit makes this plant a **great centerpiece for combination pots or as a standalone plant in pots and baskets.** Non-patented.

- **Use a well-drained soil with a well-balanced fertilizer at a rate of 150-200 ppm N.** Keep moist, but not over watered, to prevent root damage. Maintain a **pH between 5.6 - 6.0.**

- **Nematodes, spider mites, and occasional caterpillars**

---

<table>
<thead>
<tr>
<th>Non-Patented Varieties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bright Ideas Black</strong></td>
</tr>
<tr>
<td><strong>Bright Ideas Rusty Red</strong></td>
</tr>
<tr>
<td><strong>Bright Ideas Lime</strong></td>
</tr>
<tr>
<td><strong>Red</strong></td>
</tr>
<tr>
<td><strong>Yellow</strong></td>
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### Patented Varieties

- **Bright Ideas Black**
- **Bright Ideas Lime**
- **Bright Ideas Rusty Red**

---

### Jacobinia

<table>
<thead>
<tr>
<th><strong>Justicia Carnea (Brazilian Plume)</strong></th>
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<tbody>
<tr>
<td><strong>Light Shade</strong></td>
</tr>
<tr>
<td><strong>Night temp 55°– 65°</strong></td>
</tr>
<tr>
<td><strong>Water usage Moderate</strong></td>
</tr>
<tr>
<td><strong>Bloom time Constant</strong></td>
</tr>
</tbody>
</table>

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Order online at [ncfarmsinc.com](http://ncfarmsinc.com)  |  Fax your order to 704.289.6312  |  Call us at 800.436.6248
Lantana

Fragrant natives of tropical regions in the Americas and Africa, these broadleaf evergreen shrubs are **drought-hardy** in landscapes and **cold-hardy** to slightly below freezing, so they can be grown as perennials in warm regions. Upright varieties are best grown in containers for **landscape use**, but they also work well in combination planters. Trailing varieties are best suited for **hanging baskets** and cascading elements in **combination planters**. Including Lantana in your spring program will **attract pollinators** and customers alike.

Use a **well-drained soil** with a **constant feed program of 200-250 ppm N**. Maintain a **pH between 5.6 - 6.2**. Optimal **EC 2.0 to 2.2 mS/cm**. Grow in full sun as greenhouse growth tends to produce stretch and dull colors.

- Whiteflies, aphids, and leafminers

---

**Less than 12”**

- Bright Orange*
- Dwarf Raspberry
- Florida Fuchsia*
- Florida Red*
- Golden Zinger
- Goldie
- Nugget*
- Pinky

**12” - 16”**

- Buttercup
- Cream
- Dark Purple
- Fantasy
- Magic Hour*
- Megan’s Gold*
- New Gold
- Orange Bicolor
- Pink Blush
- Red Compacta
- Salsa
- Spreading Gold

---

Our Lantana ship fresh from the USA. We cut them late in the day and ship priority overnight, reducing the potential for damage from ethylene build-up, increasing your chance for success.
Widest Selection of Non-Patented Lantana in the Industry

16”- 20”

- Bright Pink
- Elegance
- Fireworks
- Knee High Gold
- Knee High Orange
- Knee High Yellow
- Lil’ Miss*
- Peaches
- Soft Pink
- Upright White
- Wagon Wheel Pink

20+”

- Confetti
- Dallas Red
- Dark Red
- Irene
- Miss Huff
- Peachy Yellow
- Samantha
- Lavender
- White

Available in an assorted tray
*Marked varieties are patented.

<table>
<thead>
<tr>
<th>Variety</th>
<th>4” crop time</th>
<th>10” crop time</th>
<th>Light</th>
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<td>Full sun</td>
<td>60°</td>
<td>Light/moderate</td>
<td>Constant</td>
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</table>

Order online at ncfarmsinc.com  |  Fax your order to 704.289.6312  |  Call us at 800.436.6248
Lobelia

Originally from South Africa, Lobelia are beautiful mounding plants which load up with unique blooms from late spring until frost. The upright varieties are most popular as edge plants in landscapes and are used in 1801s. Our trailing varieties are better used in hanging baskets or as cascading elements in mixed combos. All our vegetative cultivars have been bred and hand-chosen to have a wide color range and large blooms, and they perform better in the heat than seed varieties.

Patented varieties:
Anabel Series  
• Blue Hope  
• Brilliant Blue  
• Snow White  
• Superior Blue

Lambium

The Spotted Dead Nettle is originally from Europe and North Africa. This fast-growing perennial functions well as a groundcover and is resistant to deer and rabbits. Its colorful green-and-silver leaves make a soft, attractive accent in landscapes and combination pots. Lambium is an aggressive plant when grown in partial to full shade and can spread rapidly. Non-patented.

Lipstick

Lipstick plant is native to Malaysia and is one of the most unique plants that we carry. Growing this easy-to-care-for plant is a simple way to set yourself apart from the competition. Normally grown in hanging baskets, these trailing plants have red tubular blooms that grow from a calyx more than an inch from the tips of vines. It’s an epiphyte with a native habitat in the forest, which means it grows well in partial-shade areas and can cling harmlessly to the sides of trees and logs. Sell this to your customers as a shade hanging basket or as a year-round houseplant; they will love the novelty and versatility of this exotic plant. Non-patented.

Use a low-but-constant feed program of 200 ppm N. Maintain a pH between 5.8-6.2. Growing with cooler night temperatures will produce a stockier plant with shorter internodes and more intense color.

Aphids and whiteflies

50 Count Trays

Come One of Two Ways:

True 50s

Our 50mm tray is used for plants with larger leaves whose root systems demand larger growing media.

Mini 50s

Our 25mm tray (105 planted every other cell) is used for plants with larger leaves that need more space but whose root systems do not need extra space. Smaller soil volume in these trays means faster root times.

*Price list items marked with an asterisk under tray size are shipped in Mini 50s. All others are True 50s or full 105s.

Non-Patented Varieties

Trailing Lavender Pink  
Trailing Baby Blue  
Trailing Midnight Blue  
Trailing White

50 Count Trays

Come One of Two Ways:

True 50s

Our 50mm tray is used for plants with larger leaves whose root systems demand larger growing media.

Mini 50s

Our 25mm tray (105 planted every other cell) is used for plants with larger leaves that need more space but whose root systems do not need extra space. Smaller soil volume in these trays means faster root times.

*Price list items marked with an asterisk under tray size are shipped in Mini 50s. All others are True 50s or full 105s.

Non-Patented Varieties

Trailing Lavender Pink  
Trailing Baby Blue  
Trailing Midnight Blue  
Trailing White
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* Price list items marked with an asterisk under tray size are shipped in Mini 50s. All others are True 50s or full 105s. See p. 30 for more details.
<table>
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<tr>
<th>Page</th>
<th>2019-2020 Price List</th>
<th>Prices subject to change</th>
<th>Tray Size</th>
<th>Unrooted Cuttings</th>
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<td>—</td>
<td>63¢</td>
</tr>
<tr>
<td>48</td>
<td>Pilea</td>
<td>Moon Valley</td>
<td>105</td>
<td>20¢</td>
<td>47¢</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>—</td>
<td>57¢</td>
</tr>
<tr>
<td>48</td>
<td>Plectranthus</td>
<td>Green, Mint, Purple</td>
<td>105</td>
<td>14¢</td>
<td>41¢</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Hilliardae, Emerald Lace, Upright Ciliatus</td>
<td></td>
<td>23¢</td>
<td>43¢</td>
</tr>
<tr>
<td>40</td>
<td>Pot Mums</td>
<td>- Patented Varieties</td>
<td>105</td>
<td>—</td>
<td>59¢</td>
</tr>
<tr>
<td>49</td>
<td>Purple Fountain Grass</td>
<td></td>
<td>50</td>
<td>—</td>
<td>66¢</td>
</tr>
<tr>
<td>49</td>
<td>Purslane/Portulaca</td>
<td>Patented Varieties</td>
<td>105</td>
<td>15¢</td>
<td>46¢</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>—</td>
<td>58¢</td>
</tr>
<tr>
<td>50</td>
<td>Sansevieria Snake Plant</td>
<td></td>
<td>50</td>
<td>—</td>
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<tr>
<td>50</td>
<td>Scaevola</td>
<td>Blue Fan Flower</td>
<td>105</td>
<td>19¢</td>
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</tr>
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<td></td>
<td>Patented Varieties</td>
<td></td>
<td>—</td>
<td>65¢</td>
</tr>
<tr>
<td>50</td>
<td>Senecio Ivy</td>
<td></td>
<td>105</td>
<td>17¢</td>
<td>44¢</td>
</tr>
<tr>
<td>50</td>
<td>Setcreasea Purple Heart</td>
<td></td>
<td>50*</td>
<td>21¢</td>
<td>62¢</td>
</tr>
<tr>
<td>50</td>
<td>Shrimp Plant</td>
<td></td>
<td>50*</td>
<td>—</td>
<td>88¢</td>
</tr>
<tr>
<td>51</td>
<td>Sprengeri Fern</td>
<td></td>
<td>105</td>
<td>—</td>
<td>48¢</td>
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<tr>
<td>51</td>
<td>Streptocarpella</td>
<td></td>
<td>105</td>
<td>22¢</td>
<td>48¢</td>
</tr>
<tr>
<td>51</td>
<td>Strobilanthes Persian Shield</td>
<td></td>
<td>105</td>
<td>—</td>
<td>62¢</td>
</tr>
<tr>
<td>52</td>
<td>Succulent Assorted</td>
<td>- Aloe Vera, Crassula, Echeveria, General, Sedum, Sempervivum, Trailing</td>
<td>50</td>
<td>—</td>
<td>96¢</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Exotic Assortment</td>
<td></td>
<td>—</td>
<td>$1.10</td>
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<tr>
<td></td>
<td></td>
<td>Premium Cactus Mixture</td>
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<td>—</td>
<td>$1.16</td>
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<tr>
<td>54</td>
<td>Thunbergia</td>
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<td>105</td>
<td>—</td>
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<tr>
<td>54</td>
<td>Tillandsia</td>
<td>**Can ship with rooted orders</td>
<td>100</td>
<td>57¢</td>
<td>—</td>
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<tr>
<td>51</td>
<td>Tolmiea Piggyback Plant</td>
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<td>50*</td>
<td>23¢</td>
<td>66¢</td>
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<td>54</td>
<td>Torenia</td>
<td>- Patented Varieties</td>
<td>105</td>
<td>—</td>
<td>59¢</td>
</tr>
</tbody>
</table>

* Price list items marked with an asterisk under tray size are shipped in Mini 50s. All others are True 50s or full 105s. See p. 30 for more details.
<table>
<thead>
<tr>
<th>Page</th>
<th>2019-2020 Price List</th>
<th>Tray Size</th>
<th>Unrooted Cuttings</th>
<th>Rooted Plugs</th>
</tr>
</thead>
<tbody>
<tr>
<td>55</td>
<td>Verbena</td>
<td>105</td>
<td>17¢</td>
<td>51¢</td>
</tr>
<tr>
<td></td>
<td>Patented Varieties</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>56</td>
<td>Vinca Vine</td>
<td>105</td>
<td>12¢</td>
<td>49¢</td>
</tr>
<tr>
<td>56</td>
<td>Wandering Jew</td>
<td>105</td>
<td>13¢</td>
<td>41¢</td>
</tr>
<tr>
<td></td>
<td>Burgundy, Green Silver, Purple, Red</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bolivian, Bridal Veil</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Green Yellow, Purple Fuzzy, Rainbow, Tricolor, White Fuzzy</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rhapsody Combo: includes Green/Yellow, Purple, Red, and Tricolor</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ASSORTMENTS**

| 7    | Alternanthera        | 105       | 15¢               | 57¢         |
| 7    | Angelonia            | 105       | 17¢               | 63¢         |
| 9    | Begonia Angelwing    | 50*       | 43¢               | 73¢         |
| 8    | Begonia Double       | 105       | 25¢               | 59¢         |
| 11   | Bougainvillea        | 50        | —                 | $1.15       |
| 13   | Calibrachoa          | 105       | 23¢               | 64¢         |
| 13   | Calibrachoa - Patriotic, Spring Fever, Tutti Frutti |
| 15   | Christmas Cactus     | 105       | —                 | 66¢         |
| 16   | Coleus               | 105       | 16¢               | 55¢         |
| 16   | Coleus All Mixed Up  | 105       | 18¢               | 61¢         |
| 60   | Combo Trays          | 105       | —                 | 68¢         |
| 19   | Double Impatiens     | 105       | 18¢               | 53¢         |
| 21   | Fuchsia              | 105       | 17¢               | 57¢         |
| 38   | Garden Mums          | 105       | —                 | 56¢         |
| 22   | Geranium             | 50        | —                 | 97¢         |
| 22   | Gesneriads           | 105       | —                 | 96¢         |
| 24   | Goldfish Hybrid      | 105       | —                 | 85¢         |
| 25   | Hedera Ivy - Green Leaf, Variegated Leaf, or Mixed Assortment | 105 | 11¢ | 63¢ |
| 25   | Hedera Ivy 4" - Green Leaf, Variegated Leaf, or Mixed Assortment | 15 | — | $1.50 |
| 26   | Herb                 | 105       | 18¢               | 64¢         |
| 25   | Hibiscus             | 105       | 24¢               | 62¢         |
| 27   | Ipomoea Sweet Potato | 105       | 25¢               | 60¢         |
| 28   | Lantana              | 105       | 19¢               | 57¢         |
| 30   | Lobelia              | 105       | —                 | 64¢         |
| 42   | New Guinea           | 105       | 23¢               | 58¢         |
| 44   | Peperomia            | 105       | 20¢               | 55¢         |
| 46   | Petunia - Mini or Trailing | 105 | 25¢ | 60¢ |
| 48   | Pilea                | 105       | 22¢               | 57¢         |
| 48   | Plectranthus Swedish Ivy | 105 | 19¢ | 53¢ |
| 40   | Pot Mum Assorted     | 105       | —                 | 71¢         |
| 49   | Purslane             | 105       | 17¢               | 56¢         |
| 49   | Purslane All Mixed Up| 105       | 20¢               | 63¢         |
| 52   | Succulent 2" Mixture | 25        | —                 | $2.00       |
| 52   | Succulent Assortments| 50        | —                 | 96¢         |
| 52   | Succulent Exotic Assortment | 50 | — | $1.10 |
| 52   | Succulent Premium Cactus Mixture | 50 | — | $1.16 |
| 59   | Super Assortment - Fairy, Foliage, Spring | 105 | — | 71¢ |
| 55   | Verbena              | 105       | 19¢               | 61¢         |
| 56   | Vinca Vine           | 105       | 14¢               | 59¢         |
| 56   | Wandering Jew        | 105       | 15¢               | 54¢         |

**EXTRAS**

| 58   | Greenhouse Supplies - See website for pricing or call for quote | — | — | — |
| 12   | Ellepots             | ALL       | —                 | — $2.80     |
| 35   | Tags - By request only. Bundles of 100 |
|      | Less than 100 per variety |
|      | <100                  | 4,5¢ ea.  |
|      |                       | 7¢ ea.    |

*Price list items marked with an asterisk under tray size are shipped in Mini 50s. All others are True 50s or full 105s. See p. 30 for more details.*

**Please see our website for more pricing options:** [https://ncfarmsinc.com](https://ncfarmsinc.com)

*Rooted Plants grown in 105 plug trays are billed for 100 plants. Rooted Plants grown in 50 plug trays are billed for 50 plants.*
Fax this order form to 704.289.6312 or scan and email it to orderinfo@ncfarmsinc.com

### Billing

<table>
<thead>
<tr>
<th>COMPANY NAME</th>
<th>CONTACT NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>STREET ADDRESS</td>
<td>CITY</td>
</tr>
<tr>
<td>E-MAIL</td>
<td>PHONE</td>
</tr>
</tbody>
</table>

How would you like to receive your acknowledgments and invoices?  
- [ ] FAX  
- [ ] E-MAIL  
- [ ] BILLING ADDRESS

### Shipping

<table>
<thead>
<tr>
<th>COMPANY NAME</th>
<th>CONTACT NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>STREET ADDRESS</td>
<td>CITY</td>
</tr>
<tr>
<td>E-MAIL</td>
<td>PHONE</td>
</tr>
</tbody>
</table>

**Ship Week:** ______/_____/______  
- [ ] OK to split-ship if needed  
- [ ] Pick-up (available year-round)  
  Jan-March: Thursday/Friday only.  
  **Please call ahead at least 48 hours.**  
- [ ] Air Freight  
- [ ] FedEx Unrooted materials are shipped overnight. Rooted material is shipped second-day, weather permitting  
- [ ] Grower Truck (if available)

**Customer Notes:** ____________________________

### Payment Info

**CREDIT CARD:**  
- [ ] VISA  
- [ ] AMERICAN EXPRESS  
- [ ] MASTERCARD  
- [ ] DISCOVER  
- [ ] BROKER: ______________________________

<table>
<thead>
<tr>
<th>CARD NUMBER</th>
<th>V-CODE**</th>
<th>NAME ON CARD</th>
<th>EXP. DATE</th>
</tr>
</thead>
</table>

*Please Note: Card is charged when plants are shipped.*

**PRE-PAY:**  
- [ ] CHECK*  
- [ ] MONEY ORDER  
*We must receive payment before your plants will ship.*

*Please make all checks payable to: NC Farms, Inc. **V-Code is a three-to-four-digit number located in the signature block on the back of the credit card. ***If you order through a broker, you will receive your acknowledgement from them. Please notify us if you do not receive it.

### Quantity Table

<table>
<thead>
<tr>
<th>QUANTITY</th>
<th>DESCRIPTION</th>
<th>RC OR URC</th>
<th>ADD TAGS</th>
<th>COST</th>
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<tbody>
<tr>
<td>________</td>
<td>___________</td>
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<td>_________</td>
<td>________</td>
<td>______</td>
</tr>
</tbody>
</table>

**Boxing charge (see page 35):**

Freight (call for estimate): ______

**TOTAL:** ______

Claims must be reported within 3 days of receiving the plants. Our liability of any claim is limited to the purchase price.

I agree to the terms and conditions as listed in full at ncfarmsinc.com/terms.php

Signature: ________________________________ Date: ______/_____/______

(Order not valid unless signed.)
The Black List

Propagation is prohibited on patented plants. Don't say we didn't warn you.

Breeders included in this catalog are: Danziger, Dummen Orange, Ecke, Westhoff, Syngenta, Sakata, and Express. Other patented varieties include Belgian Mums, Ipomoea Bright Ideas, and the following Lantana: Bright Orange, Florida Mound Red, Florida Mound Fuchsia, Lil Miss, Megan's Gold, Magic Hour, & Nugget Improved.

Maximize your box size

- The number one way to lower your freight cost per plant is to order an even number of trays. Don't leave a dead space in the top of your box!
- The 8-tray box is our most economical way to ship, and carriers seem to handle it best. Each tray weighs approximately five pounds, so the 8-tray box is harder to toss around. Avoid shipping damages by loading up your box.

- Boxing charges are $1.50 per tray on all rooted orders and $3.00 per box for all unrooted orders. This fee applies to all boxed orders for shipping or pick-up. An additional $3.00 charge will be applied for insulated boxes when necessary. We determine which box to use based on weather at the time of shipment. Please let us know if you would like to try to avoid the insulation charge by delaying your shipment for weather.

- If you want tags, be sure to request them when you order.

Would you like tags with that?

- Pixie Tags are pictured tags 1” x 4” available in most varieties by specific color.
- Standard Order: sold in units of 100 per variety ($4.50 per 100)
- Custom Order: sold in any quantity less than 100 ($0.07 each)

Pick up your plants and save on shipping!

If you'd like to come pick up your plants and save on shipping costs, please just give us at least 48 hours' notice so we can have your order ready. Pick-up is available Thursday-Friday for the months of January-April and Monday-Friday the rest of the year. Please indicate when you place your order that you plan to pick up your plants. Our facility is located just southeast of Charlotte, North Carolina.

Too far away to pick up your plants? Don't worry, we've got you covered.

- You've told us how much you love our in-house delivery service.
  Feedback continues to be phenomenal, and we aim to please. Our trucks are by far the safest way to ship your plants. We look at all possible deliveries weekly and automatically move your order to our trucks whenever we can match or beat FedEx rates. Adjustable ship dates facilitate route planning and increase the chances of getting your plants on our truck. When you order, let us know if your ship dates are flexible.
- FedEx is most common for shipments in mild weather.
  Unrooted orders ship overnight; rooted plants ship second-day. For this reason, we cannot combine rooted and unrooted orders. If weather is extremely cold, we will reschedule for the following week. Provide your email address when you order to receive a tracking number at the time of shipment.
- We also ship by air from Charlotte, North Carolina.
  If you choose this method, you must pick up your shipment at your air cargo facility. There is a $25 airport delivery fee in addition to freight charges for each order.

Wondering when your plants will ship?

Our system is set up by ship weeks, not ship dates. This is the industry standard. If your order is set for January 7, 2019, this means it should ship Week 2 of the calendar year. If your plants ship Monday, Tuesday, or Wednesday of your week, they have shipped on time.

- We ship Monday through Wednesday each week.
- Your order is usually shipped out on the same day that it is completed.
- We cannot guarantee that all orders will go out on Monday.
- Provide your email address when you order to receive a tracking number at the time of shipment.
- In some cases, rescheduling of your shipment may occur. We will notify you as quickly as possible if this happens.
**Rooted Cuttings (RC)**

<table>
<thead>
<tr>
<th>Minimum order</th>
<th>4 trays</th>
</tr>
</thead>
</table>
| Min. per variety | 35 plugs (105 tray)  
|                | 25 plugs (50 tray) |
| Low order fee  | $8.00 per missing tray |
| Pricing/tray size | See pages 31-33 |

Our rooted cuttings come ready to transplant with a healthy root system. These plugs save you time and fuel costs and can reduce the losses from rooting plants yourself.

Our most common tray size is the 105. Its plug is 1" in diameter and 1.5" tall.

For plants with larger leaves, we use our 50-cell tray. Plugs in this tray measure 1.25" in diameter and 1.5" tall. See note on page 30 for more details.

**Unrooted Cuttings (URC)**

<table>
<thead>
<tr>
<th>Minimum order</th>
<th>600 cuttings</th>
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</thead>
<tbody>
<tr>
<td>Min. per variety</td>
<td>100 cuttings</td>
</tr>
<tr>
<td>Low order fee</td>
<td>$5.00 per missing 100</td>
</tr>
<tr>
<td>Pricing</td>
<td>See pages 31-33</td>
</tr>
</tbody>
</table>

Unrooted cuttings vary in size between plant families, but most of them are tip cuttings that stick nicely in our 105 plug tray. (Ivy are leaf-and-eye cuttings, not tips.)

Unrooted cuttings require experienced propagators with mist systems and proper temperature control.
**Lobularia**

**Sweet Alyssum** is an annual mounding and flowering plant from the Mediterranean region. It can be used as an edge plant in landscapes, as part of a combo basket as a cascading bloomer, or in a standalone basket or container. Lobularia Streams are part of Danziger’s breeding program and have been selected for their better heat tolerance and growth habit.

Use a constant feed program of **100-200 ppm N** with an **EC** of **1.2-1.4**. Maintain a **pH** between 5.5 - 5.8.

- **Aphids**, **whiteflies** and possibly **thrips**

*All Lobularia varieties are patented.*

<table>
<thead>
<tr>
<th>Variety</th>
<th>4” crop time</th>
<th>10” crop time</th>
<th>Light</th>
<th>Night temp</th>
<th>Water usage</th>
<th>Bloom period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deep Lavender Stream</td>
<td>4-5 weeks</td>
<td>7-8 weeks</td>
<td>Full/partial sun</td>
<td>55°</td>
<td>Moderate</td>
<td>Spring/Summer/Fall</td>
</tr>
<tr>
<td>Lavender Stream</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Purple Stream</td>
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</tr>
<tr>
<td>Raspberry Stream</td>
<td></td>
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</tr>
<tr>
<td>Silver Stream</td>
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</tr>
<tr>
<td>White Stream</td>
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</tr>
</tbody>
</table>

**Lotus Vine**

Native to the Canary Islands, **Parrot’s Beak** has a drought-tolerant, compact mounding habit with grey foliage. Come late spring, one-inch-long red-and-golden blooms set it on fire. Due to its unusually-shaped flower and desirable growth habit, it has great potential to be used in combination planters, as a border plant, or in a standalone container. Only hardy in zones 10 to 12, but it’s a beautiful summer annual for everyone else. Non-patented.

Use a constant-but-low feed program of **200 ppm N**. A **pH** between **5.5 and 6.5** is important for the healthiest plant color.

- **Aphids** and **mealybugs**

<table>
<thead>
<tr>
<th>Variety</th>
<th>4” crop time</th>
<th>10” crop time</th>
<th>Light</th>
<th>Night temp</th>
<th>Water usage</th>
<th>Bloom period</th>
</tr>
</thead>
<tbody>
<tr>
<td>4” crop time</td>
<td>6 weeks</td>
<td>8-10 weeks</td>
<td>Full sun</td>
<td>45°- 60°</td>
<td>Moderate</td>
<td>Spring</td>
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<tr>
<td>10” crop time</td>
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</tbody>
</table>

**Lysimachia**

**Creeping Jenny** is a vining plant known for its yellow leaves and cascading growth habit. Known more for its foliage than its flower, in warmer climates Creeping Jenny is evergreen and will produce small yellow flowers in the springtime. Lysimachia is an excellent **groundcover**, a cascading plant in a combination planter, or a standalone **hanging basket**. It is also an **aquatic plant** and can be grown submerged for aquarium use. Non-patented.

Use a **constant feed program of 150-200 ppm N**. Maintain a **pH** between **5.8 - 6.2**.

- **Whiteflies**, **aphids**, and **spider mites**

<table>
<thead>
<tr>
<th>Variety</th>
<th>4” crop time</th>
<th>10” crop time</th>
<th>Light</th>
<th>Night temp</th>
<th>Water usage</th>
<th>Bloom period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deep Lavender Stream</td>
<td>6 weeks</td>
<td>10 weeks</td>
<td>Full sun</td>
<td>60°</td>
<td>Moderate</td>
<td></td>
</tr>
<tr>
<td>Lavender Stream</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Purple Stream</td>
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<tr>
<td>Raspberry Stream</td>
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</tr>
<tr>
<td>Silver Stream</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>White Stream</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Not pictured: Goldi (patented)
Garden Mums: Here's your fall plan.

Mum Ordering Calculator

Assume your peak garden mum sales time is in mid-September, around week 38:

1. You pick varieties that bloom during that window (see chart).
2. Since the canopy size of a finished mum should be double the pot size, to sell in 8" mum pans, your mums will need to grow out to 16" to make a full, finished product.
3. Since Belgian mums grow an inch and a half per week, you need about 11 weeks to finish them out.
4. You count back, add one week for good measure, and realize you want your mums to arrive on week 26, or the end of June.
5. You leisurely place your order on ncfarmsinc.com and kick back to enjoy a cup of coffee. Done!

For you math nerds, here's a simple formula for you to follow: \( BW - (PS \times 2 / 1.5) + 1 = AW \)
\( BW = \) Bloom Week, \( PS = \) Pot Size, \( AW = \) Arrival Week

Don't forget: Custom orders must be placed at least 6 weeks in advance of your Arrival Week!

### Mum Ordering Calculator

<table>
<thead>
<tr>
<th>EARLY SEPTEMBER</th>
<th>MID SEPTEMBER</th>
<th>LATE SEPTEMBER</th>
<th>EARLY OCTOBER</th>
<th>MID/LATE OCTOBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>Urano Red</td>
<td>Camina Red</td>
<td>Amadora Red</td>
<td>Como Red - NEW</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fonti Red - NEW</td>
<td>Pobo Red</td>
<td>Lava Red</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Granata Red</td>
<td>Savona Red</td>
<td>Pavia Red</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vega Red</td>
<td>Thera Red</td>
<td></td>
</tr>
<tr>
<td>Yellow</td>
<td>Allergra Yellow</td>
<td>Aktion Gold</td>
<td>Atlantico Yellow</td>
<td>Aluga Yellow</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Arluno Yellow - NEW</td>
<td>Cesaro Yellow</td>
<td>Amiko Yellow</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fonti Yellow - NEW</td>
<td>Conaco Yellow</td>
<td>Malmo Yellow</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sinelli Yellow</td>
<td>Cornella Yellow</td>
<td>Milano Yellow</td>
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<tr>
<td></td>
<td></td>
<td>Urano Yellow</td>
<td>Espero Yellow</td>
<td>Veritas Yellow</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Venos Yellow</td>
<td>Matador Yellow</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Padre Yellow</td>
<td></td>
</tr>
<tr>
<td>Orange</td>
<td>Urano Orange</td>
<td>Conaco Gold</td>
<td>Amiko Bronze</td>
<td>Aduro Orange - NEW</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Conaco Orange</td>
<td>Cento Bronze</td>
<td>Galatino Purple</td>
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<tr>
<td></td>
<td></td>
<td>Conella Orange</td>
<td>Izola Orange</td>
<td>Jasoda Mauve - NEW</td>
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<tr>
<td></td>
<td></td>
<td>Miora Orange</td>
<td>Milano Orange</td>
<td></td>
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<td></td>
<td></td>
<td>Nerola Orange</td>
<td>Tuscan Salmon</td>
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<td></td>
<td></td>
<td>Padre Orange</td>
<td>Veritas Orange</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Peroni Orange - NEW</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rhinos Orange</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Purple</td>
<td>Adiva Purple</td>
<td>Magnus Violet</td>
<td>Amiko Violet</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Arluno Mauve - NEW</td>
<td>Padre Cerise</td>
<td>Coparo Purple</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Pobo Lavender</td>
<td>Lano Purple - NEW</td>
<td></td>
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<td></td>
<td></td>
<td>Zaza Purple</td>
<td></td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>Arluno Vanilla - NEW</td>
<td>Espero White</td>
<td>Aluga White</td>
<td>Aramis White</td>
</tr>
<tr>
<td></td>
<td>Fonti White - NEW</td>
<td>Margo White</td>
<td>Amiko White</td>
<td>Jasoda White</td>
</tr>
<tr>
<td></td>
<td>Lesconil White</td>
<td>Padre White</td>
<td>Milano White</td>
<td>Staviski White</td>
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<tr>
<td></td>
<td>Mabel White</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prima White</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pink</td>
<td>Aktion Pink</td>
<td>Fiora Pink</td>
<td>Latina Pink</td>
<td>Aduro Pink - NEW</td>
</tr>
<tr>
<td></td>
<td>Arluno Pink - NEW</td>
<td>Padre Pink</td>
<td>Pomona Violet</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Destino Pink</td>
<td></td>
<td>Livia Pink</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fonti Pink - NEW</td>
<td></td>
<td>Milano Pink</td>
<td></td>
</tr>
</tbody>
</table>

Chart based on southern bloom times; northern times vary, but trend earlier. See our website for images and growing information.
Belgian Mums© are the finest garden mums on the market today, with over 30 years of breeding and testing behind them. They boast a mounding habit, produce a multitude of blooms, branch better and more often than other mums, and require no pinching.

8” crop time 12 weeks
Light Full sun
Min night temp 50°
Water usage Moderate
Bloom period See table

Use a well-drained, loose, soilless media. Incorporate slow-release fertilizer to ensure a steady supply of nutrients if crops are grown outside with overhead irrigation. Maintain pH 5.8-6.2. Grow in full sun for best quality.

Aphids, Mites, Caterpillars, Leafminers, and Thrips

*See our website for growing tips and more information: ncfarmsinc.com/BelgianMums

Maximize freight

Need less than 8 trays of mums?
Reduce your cost per plant by ordering complementary plants to fill out the empty space in your box. Next season’s Ferns benefit from an early start — or try Christmas Cactus for your 4” pots, or Dracena and other fast-growing foliage plants for fun fall combos!

Belgian Mums are:

- **Low Maintenance** — They do not require pinching or plant growth regulators.
- **Easy to Grow** — They require no supplemental lighting or black cloth during a natural bloom season.
- **Flexible** — They grow anywhere outdoors in the full sun.
Nemesia

This South African native sports a unique bloom shape that sets it apart from everything else you grow. Nemesia perform well as outdoor garden plants and load up with multi-colored blooms sure to catch a customer’s eye. Grow them in small pots for a quick-turn product to pair with your pansies and other cool temperature landscape plants.

We offer the following patented varieties:
- Banana Swirl
- Burgundy
- Dark Blue
- Magenta
- Snow Angel
- Sunshine
- Tropical

Feed at 150-200 ppm N. Maintain a pH of 5.8 – 6.0 and an EC of 1.0 – 1.2. Pinch 5-10 days after transplanting rooted cuttings. Use high light intensities to control growth. If needed, Danziger recommends the PGR B-Nine 3750 / A-rest 10 ppm tank mix.

Whiteflies, aphids, thrips

<table>
<thead>
<tr>
<th>Product</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hilo Mango</td>
<td>Red</td>
</tr>
<tr>
<td>Hilo Tangerine</td>
<td>Orange</td>
</tr>
<tr>
<td>Estes Park Purple</td>
<td>Purple</td>
</tr>
<tr>
<td>Bloomfield Yellow</td>
<td>Yellow</td>
</tr>
<tr>
<td>Fire Island Red Bicolor</td>
<td>Red/Bicolor</td>
</tr>
<tr>
<td>Grandview Light Pink</td>
<td>Pink</td>
</tr>
<tr>
<td>Limerick Lime</td>
<td>Lime</td>
</tr>
<tr>
<td>Olympia White</td>
<td>White</td>
</tr>
<tr>
<td>Outrageous Red</td>
<td>Red</td>
</tr>
<tr>
<td>Pittsburgh Purple</td>
<td>Purple</td>
</tr>
<tr>
<td>Pueblo Yellow</td>
<td>Yellow</td>
</tr>
<tr>
<td>Rockport Purple</td>
<td>Purple</td>
</tr>
<tr>
<td>Santa Cruz Red Bicolor</td>
<td>Red/Bicolor</td>
</tr>
</tbody>
</table>

Pot Mums

A classic garden plant, Chrysanthemums are a versatile crop that can be grown in almost any size and container type, which expands their marketing possibilities. We carry Syngenta’s line of Yoder mums, which boasts more than 60 colorful varieties. These mums can be grown year-round, but will require supplemental lighting and/or black cloth outside of their native bloom period in the fall.

Always plant in moist, well-drained, well-aerated media. Plant deep to anchor the plant. Use liberal water and fertilizer, but allow some drying between irrigations to prevent root rot and promote healthy root systems. Thorough irrigation with leaching is ideal. Heavy feed during the initial stages of growth is best, but reduce or eliminate feed and lower the night temperatures during the final 3-4 weeks of production to increase longevity, enhance flower color, and strengthen stems.

Aphids, fungus gnats, leafminers, spider mites, thrips, and whiteflies

*All Pot Mum varieties are patented.
SunPatiens® are revolutionary new hybrid impatiens bred by Sakata. These remarkable plants represent a breakthrough in flower breeding: **vigorous, sun-loving, heat-loving** impatiens that thrive in full sun or part shade and deliver continuous color from spring through frost. Whether used in baskets, window boxes, patio pots, or landscapes, these beautiful varieties combine massive flower power with **tough, low-maintenance plants**. SunPatiens® are offered in two distinct habits: **compact and vigorous**.

*All SunPatiens varieties are patented.*

### Compact
SunPatiens® are bred for shorter internodes and excellent branching for a dense, bushy plant and strong retail appeal.

### Vigorous
SunPatiens® have a mounding habit ideally suited for baskets and premium patio pots.

**Use a constant feed program of 100 ppm N. Maintain a pH between 5.8 - 6.3.**

**Spider mites, thrips, and shore flies**

For more detailed growing tips from the breeders, download a pdf of cultural info: [ncfarmsinc.com/SunPatiens](http://ncfarmsinc.com/SunPatiens)

<table>
<thead>
<tr>
<th>4&quot; crop time</th>
<th>4-6 weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>10&quot; crop time</td>
<td>10 weeks</td>
</tr>
<tr>
<td>Light</td>
<td>Sun/shade</td>
</tr>
<tr>
<td>Night temp</td>
<td>55°</td>
</tr>
<tr>
<td>Water usage</td>
<td>Moderate</td>
</tr>
<tr>
<td>Bloom period</td>
<td>Spring/Summer/Fall</td>
</tr>
</tbody>
</table>

**Not pictured:** Red, Orange, Neon Pink, Pink Candy, Tropical Salmon, Tropical White, Not pictured: Tropical Orange

**Not pictured:** Clear White, Corona, Lavender, Lavender Splash, Blush Pink, Coral Pink, Deep Rose, Electric Orange, Orchid, Orange Improved, Fire Red, Hot Coral, Lilac, Neon Pink, Pink Kiss, Red, Pink, Rose Pink, Shell Pink, Purple, Royal Magenta, Tropical Rose, Tropical Salmon, Tropical White.
New Guinea Impatiens

Patented Varieties

Named for their native habitat of Papua New Guinea, these Impatiens have been a mainstay in spring and summer programs since their introduction to the US in 1972. Years of breeding and hybridization have made this plant a versatile choice in landscapes, baskets, and combination planters.

Use a constant feed program of 100-150 ppm N. Maintain a pH between 5.8 - 6.2. New Guineas are very susceptible to salts injury so ensure proper run-off and plan for a clear water drench weekly.

Spider mites and thrips

Harmony

Not Pictured:
- Boogie
- Candy Cream
- Dark Lavender
- Dark Lilac
- Dark Pink
- Dark Red
- Deep Magenta
- Deep Red
- Deep Salmon
- Fuchsia Cream
- Magenta
- Marshmallow Cream
- Orange Blaze
- Orange Star
- Pastel Lavender
- Perfect Lavender
- Pink Cream
- Pink Smile
- Raspberry Cream
- Red Cardinal
- Salmon Cream
- Snow
- Spicy Peach
- Violet
- White

NEW '20

Apricot Cream
Blush
Bicolor Red
Bold Red
Dark Violet
Fire
Purple Cream
Tangerine

Sun Harmony

Not Pictured:
- Compact Lavender
- Magenta
- Pink
- Purple
- Red
- Salmon
- Vivid Pink
- Violet

NEW '19

Blushing Orchid
Deep Orange
Deep Pink
Scarlet
White

NEW '20

Orange
Plum
Beauty Pageant Series
(Non-Patented)

Available in an assorted tray

GREEN FOLIAGE

Amelia  Annie  Carrie

Dallas  Emily  Naomi  Victoria

DARK FOLIAGE

Audrey  Andria  Elizabeth

Eve  Evelyn  Gabriella

Karen  Loretta

Carmine  Galia  Ruth

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**Osteospermum**

The **Cape Daisy** or **Blue-eyed Daisy** is a mild-climate perennial originating in South Africa, but this high-performing flower makes a fantastic annual in the rest of the country. Use these in your spring program along with pansies and other cool crops to get a spread of color in your garden center for the early-season shoppers.

*Use a constant feed program of 200 ppm N. Maintain a pH between 6.0 - 6.2.*

<table>
<thead>
<tr>
<th>Light</th>
<th>Full sun/partial shade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Night temp</td>
<td>55°</td>
</tr>
<tr>
<td>Water usage</td>
<td>Moderate</td>
</tr>
<tr>
<td>Bloom period</td>
<td>Early spring/Fall</td>
</tr>
</tbody>
</table>

**Non-Patented Varieties**

- **NEW ’19**
  - Blushing Yellow
  - Lavender
  - Purple
  - White (Purple Eye)

*Osteospermum not available in URC

**Also Available in these Patented Series:**
- Ostica Series
- Osticade Series

---

**Pellionia**

Sometimes spelled **pellonia** and commonly called **Trailing Watermelon Begonias**, these herbaceous evergreen perennials are native to Southeast Asia. They’re handy to have around your garden center as a year-round **house plant** or **terrarium plant**. Grow them in 4" pots for landscape use as an effective **groundcover** in warmer areas. Pellionia do flower, but they are typically used for their foliage and tight growth patterns. Non-patented.

*Pellionia not available in URC

**Perilla**

This upright, spreading annual is a relative of the **Coleus family** and is easily confused for its cousin by the untrained eye. Greenhouse-grown Perilla have green leaves that turn burgundy in the full sun. As a low-maintenance plant that grows in sun or shade, it’s an excellent choice for containers, baskets or landscape use. Perilla mix well with Verbena, Calibrachoa, and Bacopa as they all have similar growing needs.

*Use a constant feed program of 150-200 ppm N. Maintain a pH between 6.0 - 6.5.***

<table>
<thead>
<tr>
<th>Light</th>
<th>Full sun</th>
</tr>
</thead>
<tbody>
<tr>
<td>Night temp</td>
<td>50°-60°</td>
</tr>
<tr>
<td>Water usage</td>
<td>Moderate</td>
</tr>
</tbody>
</table>

**Non-Patented. Available in an assorted tray**

**Peperomia**

Also called **Baby Rubber Plant**, these herbaceous perennials are native to Mexico and South America. While they bloom seasonally, they are grown for their distinct foliage and ease of care. Use Peperomia as a cascading evergreen in your combo planters, hanging baskets, or small containers as an indoor houseplant.

*Use a constant feed program of 150-200 ppm N. Maintain a pH between 5.8 - 6.2. Grow in an area of high humidity with no direct sun.*

<table>
<thead>
<tr>
<th>Light</th>
<th>Partial shade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Night temp</td>
<td>50°-60°</td>
</tr>
<tr>
<td>Water usage</td>
<td>Moderate</td>
</tr>
</tbody>
</table>

Non-patented.
Petunia Hybrids
SuperCal® Series

These hybrid plants were created by Sakata because they combine the best aspects of Petunias and Calibrachoa into one plant. From the Petunia side, SuperCal® have strong roots and large flowers. From the Calibrachoa genes they have vibrant colors that hold up well in harsh conditions. Early flowering make hybrid Petunias desirable additions to a spring program for shoppers looking for color before traditional plants are ready to sell. Grow these plants for beds, hanging baskets, or as flowering cascaders in your combination pots.

Use a constant feed program of 250-300 ppm N with an EC level between 1.5-2.0. Maintain a pH between 5.5 - 6.0. Apply extra iron to promote good leaf color.

Aphids, leafminers, whiteflies, and thrips

<table>
<thead>
<tr>
<th>4&quot; crop time</th>
<th>6 weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>10&quot; crop time</td>
<td>8-11 weeks</td>
</tr>
<tr>
<td>Light</td>
<td>Full sun</td>
</tr>
<tr>
<td>Night temp</td>
<td>50°</td>
</tr>
<tr>
<td>Water usage</td>
<td>Moderate</td>
</tr>
<tr>
<td>Bloom period</td>
<td>Spring/Summer/Fall</td>
</tr>
</tbody>
</table>

*All SuperCal® varieties are patented.

Order online at ncfarmsinc.com | Fax your order to 704.289.6312 | Call us at 800.436.6248
These classic hanging basket flowers are originally from South America. No spring program is complete without the vibrant colors Petunias bring to your garden center display. With bigger flowers than Calibrachoa, these plants put on a show to attract customers. They work well in **hanging baskets** or as a **flowering cascader** in **combination baskets**.
Non-Patented Varieties

<table>
<thead>
<tr>
<th>Trait</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>4” crop time</td>
<td>4-6 weeks</td>
</tr>
<tr>
<td>10” crop time</td>
<td>8-10 weeks</td>
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<td>Light</td>
<td>Full sun</td>
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<tr>
<td>Night temp</td>
<td>55°</td>
</tr>
<tr>
<td>Water usage</td>
<td>Moderate</td>
</tr>
<tr>
<td>Bloom period</td>
<td>Spring/Summer/Fall</td>
</tr>
</tbody>
</table>

Use a constant feed program of 250-300 ppm N with an E.C. between 1.5 - 1.8. Remember to leach periodically in order to prevent salt build up. Maintain a pH between 5.8 - 6.2.

Available in these assortments:
- Mini
- Trailing

Whiteflies, aphids, leafminers, and thrips

NEW Imagination Series (Trailing)

- Cair Paravel
- Deep Magic
- Dragon’s Hoard
- Fledge
- Lion’s Mane
- Lord Drinian
- Pevensie Purple
- Polly Pink
- Rathmandu
- Turkish Delight
- Winter Jadis

Mini Series

- Deep Velvet
- Little Joy
- Purple
- White Improved
- Wine Red

Our Nanotunia has the classic shape and rich color of a Petunia, but in an ultra-compact growth habit with adorable tiny blooms. Perfect for fairy gardens!
**Pilea**

Originally from Mexico and Brazil, these **herbaceous perennials** can be grown as annual foliage, houseplants, or fairy gardens and terrariums. Their **evergreen summer toughness** makes them a good choice for garden centers to have on hand through the hot part of the year. Customers will enjoy them in **small pots** for desks or **hanging baskets** for porches after their flowering plants have succumbed to the heat. Non-patented.

Grow in a high-humidity environment using a **constant feed program of 150-200 ppm N**. Maintain a **pH between 5.8 - 6.2**. If grown in a dry environment (like most homes), **create humidity for the plant** by growing in a pot that sits in a saucer full of rocks. The saucer should be about 1/2 full of water, and the water should never touch the pot with the plant.

**Mealybugs and spider mites**

| 4" crop time | 4-6 weeks |
| 10" crop time | 8-10 weeks |
| Light | Shade/partial shade |
| Night temp | 55° |
| Water usage | Light-Moderate |

*Available in an assorted tray
*Not available as URC

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**Plectranthus**

**Swedish Ivy** are **evergreen annuals** from Africa, Asia, and the Pacific Islands. Grown for their colored foliage, these plants are best used in **hanging baskets** or **cascading elements** in mixed containers. Our trailing varieties can **make well-formed baskets quickly** and provide summer sales in the hot months when blooming plants have passed their peak. Preferring partial sun, market these as **porch plants** with morning or late afternoon sun.

Grow in a humid environment using a **constant feed program of 150-200 ppm N**. Maintain a **pH between 6.0 - 6.5**. If grown in a dry environment (like most homes), **create humidity for the plant** by growing in a pot that sits in a saucer full of rocks. The saucer should be about 1/2 full of water, and the water should never touch the pot with the plant.

**Mealybugs and spider mites**

| 4" crop time | 6 weeks |
| 10" crop time | 8 weeks |
| Light | Partial sun |
| Night temp | 60° |
| Water usage | Moderate |

*Available in an assorted tray
Non-patented

---

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Purslane/Portulaca

Purslane (in the genus Portulaca) are spreading succulents that may have originated in Europe or North Africa. They perform well in heat and drought and naturally load up with small, colorful blooms. Use them in hanging baskets or as cascading elements in combination planters. Pictured varieties are non-patented.

- Use a constant feed program of 200 ppm N. Maintain a pH between 6.0 - 6.5.
- Aphids and thrips

**4” crop time** 4 weeks  
**10” crop time** 8 weeks  
**Light** Full sun  
**Night temp** 60°  
**Water usage** Light  
**Bloom period** Spring/Summer/Fall

**Patented varieties:**

*Portulaca Pazzaz Series*
- Deep Pink
- Fuchsia
- Pink Glow
- Red Flare
- Tangerine
- Vivid Yellow
- White
- Yellow Imp

**Available in these assortments:**
- All Mixed Up
- Big Bloom Assorted

**NEW ’19**

- Jumbo Mango
- Jumbo Punch
- Jumbo Salsa
- Big Bloom Evening Wine
- Big Bloom Gold
- Big Bloom Light Pink
- Big Bloom Peach Apricot
- Big Bloom Red
- Big Bloom Rose
- Big Bloom Scarlet
- Big Bloom White
- Bright Pink
- Hot Pink
- Samba Hot Rose
- Samba Pink Bicolor

**Purple Fountain Grass**

This warm-season grass reaches a finished height of 30 inches or more. They are good for landscaping or in large combination planters. Purple Fountain Grass produce long, wheat-like blooms with purple seedheads that have a fuzzy, hairy feel to them. They are tender-hardy and will survive in zones 9 and higher. They make a wonderful annual for the rest of us, as these plants are normally disease- and pest-free and remarkably easy to grow. Non-patented.

- Use a constant-but-low feed program of 200 ppm N. For healthiest plant color, keep pH between 5.5 and 6.5. Do not allow the plant to stay saturated or it will develop root rot and fungus problems.
- Do not typically attract pests, but watch for mealybugs

**4” crop time** 6 weeks  
**10” crop time** 8-10 weeks  
**Light** Full sun  
**Night temp** 60°  
**Water usage** Light  
**Bloom period** Spring/Summer/Fall
Purple Heart (or Purple Queen) is a tender perennial used as a houseplant or an annual in landscape applications. It makes an interesting piece for a combination planter as it grows upright to a height of 12-18 inches tall. As the plant gets bigger, the stems will cascade under their own weight. Although it produces small pink flowers in the spring, its large purple leaves and stems set it apart from other plants in the houseplant category. Non-patented.

Pachystachys Lutea (commonly known as Shrimp Plant) is a native of Mexico and is normally grown as a centerpiece in a combination pot or as a background plant in mixed beds. This upright grower can get three feet tall and has large leaves with an impressive bract at the tip of each stem that produce spectacular shrimp-shaped blooms. Non-patented.

Sansevieria (also called Mother-in-law’s Tongue) is a tropical choice that has been a mainstay houseplant for many plant lovers due to their ease of care and ready availability in the marketplace. It was a winner in NASA’s “Indoor Air Pollution Abatement” study, showing a specific ability to remove formaldehyde and benzene from the home. Use this plant in a container as a houseplant. Non-patented.

Senecio fill pots with rich, evergreen foliage, so they work well in combination planters as cascading edge plants, as a standalone container or basket, or as a trellis/fence climber. Non-patented.

Setcreasea

Patented varieties:
- Blue Wind
- Pink Blessing
- White Touch
- Scalora Top Pot Blue
- Scalora Top Pot Pink
- Scalora Top Pot White

Non-patented:
- Blue Fan Flower
- German Ivy
- Wax Ivy

Scaevola

Scaevola is a flowering annual from Australia that is actually hardy in zones 9-11. It is one of the most heat-tolerant, sun-loving bloomers that we have. Producing colorful flowers in a circular pattern around the tips of stems, this plant is perfect for small pots, hanging baskets, or colorful elements in your combination planters. As a late bloomer, add Scaevola to your summer program to bring some color back to your garden center. Use a constant feed program of 150-200 ppm N. Maintain a pH between 5.5 - 6.0. They are also very sensitive to phosphate levels. Anything above 125 ppm will result in phosphate toxicity.

Shrimp Plant

Use a constant feed program of 150-200 ppm N. Allow the top of the soil to dry out between waterings. Maintain a pH between 5.8 - 6.2. If grown in a dry environment (most homes) create humidity for the plant by growing in a pot that sits in a saucer full of rocks. The saucer should be about 1/2 full of water. The water should never touch the pot with the plant. Highly resistant to pests.
**Sprengeri Fern**

Native to southern Africa, *Asparagus aethiopicus* is a perennial in the asparagus family (hardy in zones 9b-11) frequently used in landscaping, combination planters and standalone containers. Though not a true fern, the upright, sprawling habit and finely textured, evergreen foliage make Sprengeri an interesting plant to add diversity to your garden center selections. These drought-tolerant, fast-growing plants can spread 3-4 feet and reach heights of 1-2 feet. As the branches get longer, they will cascade under their own weight and can be trained to flow over a wall or container.

**Streptocarpella**

These South African natives are a part of the Gesneriad family like Lipstick and Goldfish plants, but Streptocarpella have an ever-blooming habit. They grow best in hanging baskets or four-inch pots with partial shade. (Bright, full sun will burn the foliage.) Streptocarpella are normally grown as houseplants, but they are hardy for zones 9-11. Non-patented.

**Strobilanthes**

*Persian Shield* is a tropical, evergreen sub-shrub that produces soft green and silvery-purple foliage on large leaves that can grow up to six inches long. These upright growers can be used in landscaping or indoors as a houseplant. Homeowners will need to take special care to make sure the plant stays in a humid area with morning sun and mid-day to afternoon shade. House plants will need to be misted several times a week to maintain humidity and moisture levels. Non-patented.

**Tolmiea**

Piggyback Plant is native to the northwestern part of North America, including Canada and Alaska. Piggyback plants are fast-growing and easy to care for and have a mounding habit which makes them a great candidate for hanging baskets or ground covers. Tolmiea’s fuzzy green leaves can grow two inches wide and four inches long, and the unique way it produces “piggies” from mature leaves makes it a plant that will set your garden center apart from the competition. Non-patented.

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**Non-Patented Varieties**

<table>
<thead>
<tr>
<th>Concord Blue Trailing</th>
<th>White Trailing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use a constant feed program of <strong>200 ppm</strong> N. For healthiest plant color, keep pH between <strong>5.5</strong> and <strong>6.5</strong>. Avoid cold water standing on the leaves as it will produce damage and leaf spots like an African Violet.</td>
<td></td>
</tr>
<tr>
<td>Mealybugs and thrips</td>
<td></td>
</tr>
<tr>
<td>4” crop time</td>
<td>6 weeks</td>
</tr>
<tr>
<td>10” crop time</td>
<td>8-10 weeks</td>
</tr>
<tr>
<td>Light</td>
<td>Partial sun</td>
</tr>
<tr>
<td>Night temp</td>
<td>50°</td>
</tr>
<tr>
<td>Water usage</td>
<td>Moderate</td>
</tr>
<tr>
<td>Bloom period</td>
<td>Ever-blooming</td>
</tr>
</tbody>
</table>

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**Piggyback Plant**

Use a constant feed program of **150-200 ppm** N. Piggyback are drought resistant, so grow them a little on the dry side in a well-drained soil. Maintain a **pH** between **5.8 - 6.2**.

Mealybugs

| 4” crop time | 6 weeks |
| 10” crop time | 8-10 weeks |
| Light | Shade |
| Night temp | 50° |
| Water usage | Moderate |

*Due to the warm nature of our Zone 7 summers, we only offer Piggyback Plant from October through March.*
Succulents

Our non-patented Succulent Liners and Pots have become very popular in the marketplace in the last few years. Home gardeners and professionals alike are attracted to these easy-growers because of their durability and year-round beauty.

Our collection of Succulent liners offers selections in several different families, and we’ve designed our assorted trays to offer high flexibility at low cost. We have chosen these Succulent varieties for their ease of growing and spectacular performance. Your customers will enjoy them in everything from fairy gardens to terrariums to artistic displays.

Grow on the dry side in a very well-drained soil. Succulents store water in their leaves and do not need to be watered as often as other plants. We recommend using a water-soluble feed every two weeks at 150 ppm N. Do not allow the plant to stay saturated or you will develop root or stem rot. Maintain a pH between 5.8 - 6.2.

Succulents do not have any significant pest problems.

<table>
<thead>
<tr>
<th>4&quot; crop time</th>
<th>6 weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light</td>
<td>Full sun</td>
</tr>
<tr>
<td>Min night temp</td>
<td>60°</td>
</tr>
<tr>
<td>Water usage</td>
<td>Light</td>
</tr>
</tbody>
</table>

*We cannot accommodate requests for specific varieties in succulent assortments or mixtures.

Our high quality 50-cell plug trays come ready to transplant into your final container for immediate sales.
Our Premium Cactus Mixture is a wide selection of unlabeled Cacti perfect for creating mixed pots and displays.
Tillandsia

Tillandsia (also called Air Plants) are highly versatile unrooted plants that can be attached to almost anything using a non-toxic glue. Larger plants can be supported by fishing line or thin thread. Tillandsia are perfect for crafty business owners who enjoy making something small and beautiful to put near the cash register for impulse sales. These can also be sold in bulk as bare-root plants, allowing customers the freedom to create their own plant designs. Non-patented.

Use a spritz bottle to mist 1-2 times per week (more often when the weather is hot or dry). Do not let the plant completely dry out or it will get brittle and will not survive, but take note that it cannot survive in standing water. The symptom of a dehydrated Tillandsia is usually too strong, but you can cut your normal water-soluble ratios to 1/4 dilution and mist them twice a month.

No significant pest problems

Thunbergia

Black-eyed Susan is a native of tropical Africa. It is a vining seasonal bloomer that can reach a spread of 8 feet wide. With evergreen leaves and orange or yellow blooms, this perennial is the right choice for hanging baskets, trellises, and cascading elements in combination planters. Thunbergia bloom in the late summer and early fall as the days shorten. Add these to your summer program to produce early fall sales. Non-patented.

Use a constant feed program of 150-200 ppm N. Maintain a pH between 5.8 - 6.2.

Whiteflies, spider mites, and thrips

Torenia

Commonly called Wishbone Flower, this annual is originally from Asia. These summer and fall bloomers are perfect additions to your summer program, as they provide early color for summer and fall sales. Use them in hanging baskets, as cascading elements in combination planters, or as fall bedding plants.

Use a constant feed program of 200 ppm N. Maintain a pH between 5.8 - 6.2. Torenia dry out easily, so keep them moist, but avoid overwatering. Do not allow wilting.

Whiteflies, aphids, and thrips

*All Torenia varieties are patented.
Verbena

Native to eastern North America, Verbena are creeping, soft perennial plants with blooms from early spring until frost. They offer brilliant color for landscape and pot culture. Our varieties are all winter-hardy to some degree (especially homestead purple). We’ve selected improved and new varieties that bloom early and hold flowers longer. These are very fast-growing plants and will not disappoint your spring sales program. Grow them in hanging baskets or combination planters. Pictured varieties are non-patented.

**NEW! Alice Series**

- Cheshire Pink
- Mad Hatter
- Off with Her Red
- Purple Tart
- Red of Hearts
- White Rabbit

**Carolina Series**

- Coral
- Pink Bicolor
- Purple Bicolor
- Purple Homestead
- Watermelon

**Trailing Series**

- Improved Red
- Perfect Pink
- White

**Use a constant feed program of 150-200 ppm N. Maintain a pH between 5.8 - 6.2.**

**Whiteflies, aphids, and thrips**

- 4" crop time: 6-8 weeks
- 10" crop time: 10 weeks
- Light: Full sun
- Night temp: 50°
- Water usage: Moderate
- Bloom period: Spring/Summer/Fall

**Available in an assorted tray**

**Patented Varieties:**

- Vanessa™ Series
- Vanessa™ Compact Series

If you could design a line of verbena, what would it look like?

Color the blooms below, then name your new varieties!
Vinca Vine

Common Periwinkle (also called Creeping Myrtle) is an herbaceous perennial that is native to Europe and southern Russia. It has small flowers that bloom in the spring and intermittently until frost, but is mostly known for its ground-covering foliage. Perennial to zone 7, this tough little evergreen is perfect for bedding containers or combination planters. Non-patented.

Also available as an assorted tray.

| Use a constant feed program of 150-200 ppm N. Maintain a pH between 5.8 - 6.2. |
| Aphids, spider mites, and whiteflies |

4" crop time 6-8 weeks
10" crop time 10 weeks
Light Partial sun/full shade
Night temp 50°
Water usage Light/moderate
Bloom period Late Spring

Wandering Jew

Native to the Tropical Rain Forest, this herbaceous groundcover is not only beautiful, but fast and easy to grow. Wandering Jew is a trailing plant that makes a striking hanging basket or ground cover until frost. Foliage of the Wandering Jew grows to be several feet in length, which makes this plant a favorite for horticulture applications. Grow them as part of your summer program, as these vigorous foliage plants will still look great even in the heat of July and August. Non-patented.

Also available as an assorted tray.

Use a constant feed program of 150-200 ppm N. Maintain a pH between 5.5 - 6.0.

Spider mites

Our Rhapsody combo tray comes with four contrasting plants per cell. It is perfect for combination containers as the work is already done for you.
"Plays Well With Others"

Looking for teamwork? These plants share the same goals and tend to work well together.

**Fairy Garden Plants**
- Ajuga
- Alsobia
- Bacopa
- Bidens
- Cuphea
- Diascia
- French Tarragon
- Goldfish
- Lobelia
- Lysmachia
- Lotus Vine
- Lobularia
- Moss
- Nemesia
- Oregano
- Pilea (not Aluminum)
- Streptocarpella
- Succulents
- Thyme
- Vinca Vine

**Terrarium Plants**
- Alsobia
- Cissus
- Episcia
- Ficus Quercifolia
- Fittonia
- Goldfish
- Gynura
- Lipstick
- Moss
- Pellionia
- Pilea
- Streptocarpella
- Tillandsia

**Winter Hardy**
- Ajuga
- French Tarragon
- Hedera Ivy
- Lantana Miss Huff
- Pot Mums
- Verbena Purple Homestead

**Heat Lovers**
- Ajuga
- Alternanthera
- Bougainvillea
- Coleus
- Dorotheanthus
- Dracaena
- Duranta
- Lantana
- Lavender
- Purslane/Portulaca
- Rosemary
- Scaevola
- Setcreasea
- Strobilanthes
- Succulents
- SunPatiens
- Vinca Vine

**Drought Hardy**
- Ajuga
- Basket Grass
- Begonias
- Bougainvillea
- Carnation
- Chlorophytum
- Cissus
- Dorotheanthus
- Ferns
- Hedera Ivy
- Lantana
- Lavender
- Pellionia
- Peperomia
- Purslane/Portulaca
- Rosemary
- Sansevieria
- Setcreasea
- Sprengeri
- Succulents
- Vinca Vine
- Wandering Jew

Order online at ncfarmsinc.com | Fax your order to 704.289.6312 | Call us at 800.436.6248
Greenhouse Supplies

Our greenhouse supply program continues to grow year after year. We have partnered with our hard goods supplier to pass on our volume discount to you, our customer. We are excited to be able to offer these deeply discounted prices on items you have to buy anyway—just to help you grow your business. See our website for full details on case sizes and costs: ncfarmsinc.com/supplies

Hanging Baskets and Planters

We carry hanging baskets in standard sizes from 8” up to 12” and you can order them with wire or plastic hangers, depending on your application. Three-strand hangers are available for most baskets; four-strand hangers are available for the 12” basket.

Made partially from recycled materials!

Pots and Carrier Trays

Shuttle Pots can be ordered in round or square, from 3.5” up to a 12” planter. Order shuttle trays to come with your pots. The unique design makes it impossible for soil to fall between the growing pots. These trays help you plant faster, create a more attractive display, and encourage multi-pot sales.

Ellepots

These biodegradable paper pots aid in the propagation of unrooted cuttings. The paper lining keeps the soil from settling into the tray and compacting like loose-filled soil does. As the pots are filled with media, the soil is infused with compressed air. This supplies extra oxygen to the plant and aids in producing a strong, healthy root system.

To order, visit ncfarmsinc.com/Ellepots

Each year more growers are finding the benefits of Ellepots.
To keep up with demand, we’ve doubled our production capacity.
Assorted Trays

Our assorted trays are perfect for growers who’d like to pack as much variety into each tray as possible. If you are just getting started or want to keep your volume down, assorted trays are the perfect way to get color in the greenhouse without breaking the bank.

*For a small extra charge per plant, you can pick which colors are included in your assortment. (Select assortments only.)

See price list on page 33 for a complete list of assorted trays.

Super Assortments

Want even more variety stuffed into one tray? Super Assortments are hand-picked combinations that deliver a wide variety of plants for even the smallest growers. Each tray contains **seven different varieties** of plants in our 105-cell tray. All varieties are chosen by our rooted production team based on availability at the time of shipment and priced at 71c per plant. **We cannot accommodate requests for specific plants with Super Assortments.**

1. **Super Spring Assortment:** Blooming spring annuals fill this tray with spectacular color. Expect varieties like Impatiens, Begonias, Verbena, Petunias, and more.
2. **Super Foliage Assortment:** Foliage is always handy to have around for easy filler in combination planters or standalone pots. Expect year-round sellers like Wandering Jew, Swedish Ivy, Pilea, Peperomia, and more.
3. **Super Fairy Garden Assortment:** Fairy gardens are a fun way for your customers to get creative with small spaces. Provide them with an assortment of delicate-looking plants well suited for the project, like Bacopa, Cuphea, Diascia, Lysimachia, Nemesia, Oregano, Pilea, Thyme, and more.

Plants that ship in 105-cell trays will come with **three complementary colors** of our choice based on availability.

Plants that ship in 50-cell trays will come with **two varieties** of our choice based on availability.

2" Mixed Trays

Our two inch mixed trays are designed to arrive ready for retail display. These plants are older and larger than our typical starter plants and will give you an easy option to add popular plants to your inventory. Whether you run out too early in the season or you don’t have time or bench space to grow your own, these two inch pots are here to help.

We cannot accommodate requests for specific plants with 2" Mixed Trays.
Combination Trays

Our combination trays are designed for growers who want to produce combination planters with a low volume of plants. Each 105 cell tray contains five varieties coordinated to grow well together. With a little imagination, it is possible to produce a variety of combination planters from a single tray, using 3-5 liners per basket or container.

**Note:** varieties pictured here are indicative of the kinds of plants included in each combo. Specific colors are subject to availability at the time of production. Requests cannot be made for particular plants.

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**All You Can Eat**
5 different Herbs (p. 26)

**Dish Garden**
5 different small indoor plants

**Heavenly Trails**
Evolvulus, Angelonia, Argyranthemum, Lamium, Mexican Heather

**Slow-Growing**
2 Ivy, Dracaena, Ajuga, Sprengeri

**Hot Weather**
Ipomoea, Vinca Vine, Chenille, Purslane, Petunia

**Full Sun**
2 Petunias, 2 Verbena, Ipomoea

**Premier**
Lamium, Chenille, Bacopa, Coleus, Bidens

**Terrarium**
5 different terrarium plants (see p. 57)
**Fast Grower**  
2 Coleus, 2 Ipomoea, Helichrysum

**Hummingbird**  
Petunia, Verbena, Lantana, Fuchsia, Calibrachoa

**Foliage**  
5 different Foliage plants

**Patio**  
Evolvulus, Angelonia, Argyranthemum, Calibrachoa, Bacopa

**Partial Sun**  
2 Calibrachoa, Helichrysum, Lamium, Spider Variegated

**Spring**  
Bacopa, Coleus, New Guinea, Calibrachoa, Verbena

**Red, White & Blue**  
Bacopa, Evolvulus, Chenille, Helichrysum, Lobelia

Order online at [ncfarmsinc.com](http://ncfarmsinc.com) | Fax your order to 704.289.6312 | Call us at 800.436.6248
**Why are all the ship dates on Mondays?**
The greenhouse industry standard for scheduling orders is by week number. In order to simplify the process, we schedule our orders by the Monday of that week (01-06-2020 is week 02). We do not guarantee that all orders will ship on Monday, but that they will be shipped that week. We ship Monday through Wednesday of each week. Orders are shipped on the same day in which they are pulled.

**What are your minimums for shipping?**
Our **rooted tray minimum** for shipping is 4 trays per shipment. They can be any combination of varieties. Our **unrooted cutting minimum** is 600 cuttings per shipment. They typically come in 100 count quantities.

A fee of $8 per missing rooted tray—or $5 per 100 unrooted cuttings—will be applied to gaps in orders under the minimum. In order to keep prices low, we ship unrooted and rooted products separately.

**How many rooted plug trays come per box?**
We have a box that accommodates 4 trays, 6 trays, or 8 trays depending on the size of the plants in the liners. We recommend having an even number of trays per shipment.

**How many unrooted cuttings fit in one box?**
This question has many answers, depending on the size of the cutting. Our small box will typically fit anywhere from 600 to 2,000. Our largest box can hold up to 15,000. Please feel free to contact us with any specific requests.

**Do tags come with your plants?**
Tags are a separate line item and have to be ordered separately. Tags are available by request only and will not be automatically included with your order. Some plant families have only generic tags available while others come in specific colors—be sure to ask upon ordering, or see our website for a list of generic-only tags.

**Are royalties added on patented varieties?**
Our catalog price includes royalty charges that we pay to other breeders for their patented varieties. Your cost per plant is the price listed here and on our site.

**May I propagate cuttings that grow from plants ordered?**
If the plant is patented, propagation is prohibited by law. If the plant is not patented, propagate away, my friend. See the plant item’s page to check for patented information.

**How do you ship?**
We typically ship our rooted plugs via FedEx 2nd Day and our unrooted cuttings via FedEx Priority Overnight. Rooted and unrooted plants do not ship together. We can ship air freight for an additional fee. We are continuing to expand our very popular delivery service to include more states. For larger orders, we can ship via FedEx LTL Freight if our trucks are not cost effective in your area.

**What if the total order is not ready?**
If there is a variety on the order that is not ready with the rest of the shipment, we will do our best to contact the customer to let them know. If possible, we will let the customer decide whether a substitution would be okay, or we will backorder the item and ship it when it is ready.

**Do you ship in cold weather?**
We check the weather daily during the winter at the ship to location and the FedEx hub that the plants will be traveling through. If the weather is in the lower 20s, we insulate the boxes. If there is a bad storm, we will hold the order until better weather occurs and ship it as soon as possible. We will do our best to notify the customer with any weather related delays. Always feel free to contact us with your local forecast and we can try to accommodate your schedule around bad weather.

**What should I do if my plants are damaged when they arrive?**
Please take pictures of the plants as they arrived. Unpack the box and let the plants acclimate to your environment. Plant all viable plugs or cuttings and then email us with the details of the shipment and photos documenting losses. Any claim must be reported within 3 days of receiving your plants. We guarantee all viable plants and commit to replace or refund non-viable plant material. Please see our returns page for further details: ncfarmsinc.com/damages
People Over Profits: How the Values that Drive Our Company Serve You

We all feel the constant pressure of business. At the end of the day, if we don’t make money, we're forced to liquidate. However, if we allow money to drive all of our decisions, we become consumed by greed to the detriment of our community. As a company, clearly defining our values has helped us to maintain our heading without drifting too far off course.

Coming back to these values regularly keeps our focus in the right places. We hope by sharing them that you’ll be inspired to apply this value-driven practice in the transformation of your own business.

We believe:

Everyone is created in the image of God.

• Looking In: No matter the employees’ roles or how long they've been in the company, they have value because of the worth given to them not by their titles, but by their Creator.
• Looking Out: Every customer deserves our full attention and is worthy of help along the journey, no matter their size.

We should treat our neighbors as ourselves.

• Looking In: When it comes to profit-sharing, safety, comfort, and security, we as owners have to try to put ourselves in the place of employees as we make hard decisions.
• Looking Out: We make decisions based not solely on the bottom line, but also considering what is best for our customers, from plastic to soil to virus indexing and guarantees on safe shipment.

All people are uniquely gifted to be effective in their own communities.

• Looking In: Our job as leaders is not to create good ideas, but to nurture them, no matter their origin. We need feedback and ideas from every level of our company.
• Looking Out: We all have jobs to do in our communities, from the start-up greenhouse to large-volume growers. Each company will impact their community in specific ways and areas, and we are committed to helping our customers find healthy success.

We are all stewarding our businesses, relationships, and possessions.

• Looking In: All that we have has been given to us to manage during our lifetime. Our job is to continually ask, "Is this the best and highest use of this resource?" We are invested in helping our employees to find their best place within the company and aiding them toward growth.
• Looking Out: We want to equip each of our customers to be successful by providing tools and coaching to grow their businesses year after year. If we can equip our customers to fulfill their purpose, we will have stewarded our gifts well.

These are the ideals toward which we are striving. Though we may not always hit the mark, we're at least pointing in the right direction. You can rest assured that if you put your trust in us, our service to you will flow from these values, and if there's ever a problem, we'll work with you to make it right.

For more of our story, visit ncfarmsinc.com/OurStory