THE SAKATA SEED AMERICA MISSION:
TO CONTRIBUTE SUSTAINABLY TO THE BETTERMENT OF LIFE AND CULTURE OF
PEOPLE AROUND THE WORLD WITH VALUES CREATED THROUGH OUR INNOVATIVE
FLOWER AND VEGETABLE VARIETIES AND THROUGH OUR SERVICES.

INNOVATION FROM
GREENHOUSE TO GARDEN
# CUT FLOWER

| **AGERATUM** | Blue Horizon | 3 |
| **ANEMONE** | Gemstone | 4 |
| **ASTER** | Azumi XL | 5 |
| | Bonita | 6 |
| | Matsumoto | 7 |
| | Serenade | 7 |
| **CAMPANULA** | Champion | 8 |
| | Champion II | 8 |
| | Champion Pro | 9 |
| **CELOSIA** | Chief | 10 |
| **DELPHINIUM** | Candle | 10 |
| | Planet | 11 |
| **FLOWERING CABBAGE** | Condor | 11 |
| **GODETIA** | Grace | 12 |
| **LISIANTHUS** | Borealis | 13 |
| | Doublini | 13 |
| | Echo | 14 |
| | Excalibur 2 | 14 |
| | Mariachi® | 15 |
| | Mariachi® Grande White | 15 |
| | Rosanne 1 | 16 |
| | Rosanne 2 | 16 |
| | Rosanne 3 | 16 |
| | Rosita® 1 | 17 |
| | Rosita® 2 | 17 |
| | Rosita® 3 | 18 |
| | Solo | 19 |
| | Voyage 2 | 20 |
| | Voyage 3 | 20 |
| **MARIGOLD** | COCO Marigold™ | 22 |
| **SNAPDRAGON** | Admiral | 23 |
| | Calima | 23 |
| **STOCK** | Cheerful | 24 |
| | Mid-Season Cheerful | 24 |
| | Iron | 24 |
| | Quartet | 25 |
| **SUNFLOWER** | Vincent® | 26 |
| | Sunbright | 27 |
| | Sunbright Supreme | 27 |
**BLUE HORIZON**

**F1 AGERATUM HOUSTONIANUM | BEDDING | CUT FLOWER | POTTED CROP**

- The first F1 triploid ageratum for cut flower cultivation
- Larger blooms than traditional ageratum
- Very vigorous and easy to cultivate
- Tall growing, with sturdy stems and numerous branches

**MINIMUM GERM:** 90%
**SEED FORM:** Standard, Pelleted
**CROP TIME:** Summer 12 Weeks, Winter 15 Weeks
**STEM LENGTH:** 30”
**SPACING:** 4 x 4” Single Stem, 8 x 8 Multi Stem
**COLORS / MIXES:** 1 / 0
**GEMSTONE**

**F1 ANEMONE CORONARIA | CUT FLOWER**

- New Gemstone cut flower anemone boasts large flower size: 4 to 5 inches
- Suitable for higher density production, bringing more profit for growers
- Longer harvest window offers an advantage for growers, extending shipment season
- Offers unique holiday promotion opportunities

**MINIMUM GERM:** 80%

**SEED FORM:** Raw

**CROP TIME:** 20 – 22 Weeks

**STEM LENGTH:** 38 – 46cm

**SPACING:** 6" × 6"

**COLORS / MIXES:** 4 / 0

**SCARLET**

**BLUE**

**RED BICOLOR**

**WHITE**
AZUMI XL

F1 CALLISTEPHUS CHINENSIS | CUT FLOWER

• Easier to achieve desired plant height
• High usable plug counts
• Fusarium tolerance
• Available in North America only

MINIMUM GERM: 80%
SEED FORM: Coated
CROP TIME: 13-14 Weeks
STEM LENGTH: 90 - 100cm
SPACING: Spray 5-6", Disbud 4" on Center
COLORS / MIXES: 4 / 0
BONITA

CALLISTEPHUS CHINENSIS I CUT FLOWER I POTTED CROP

- Beautiful, fully-double pompom flowers color completely
- Flowers are held at a perfect angle for maximum impact
- No need to remove the center flower bud, but stem presentation is better if this bud is removed
- Can be grown as a pot crop using modified culture
- Fusarium tolerant

MINIMUM GERM: 80%
SEED FORM: Coated
CROP TIME: 15 Weeks
STEM LENGTH: 75 – 90cm
SPACING: 4 x 5”
COLORS / MIXES: 9 / 1

SCARLET
TOP ROSE
TOP BLUE
SHELL PINK
WHITE
LIGHT BLUE
BLUE
ROSE
PINK
CALLISTEPHUS CHINENSIS | CUT FLOWER

- Don’t be fooled by cheap copies, this is the REAL Matsumoto!
- Easy to program, and stem height can be manipulated with various growing techniques
- Strong, long stems with an upright flowering habit
- Production cycle is approximately 14 weeks in spring or when produced with day length manipulation
- Fusarium tolerant

**MINIMUM GERM:** 80%
**SEED FORM:** Coated
**CROP TIME:** 14 Weeks
**STEM LENGTH:** 75 – 90cm
**SPACING:** 4 x 5”
**COLORS / MIXES:** 10 / 1 (Mix not shown)

Callistephus Chinensis I Cut Flower

• Offers a spray habit with an abundance of semi-double flowers on a single stem
• Production cycle is approximately 13 weeks in spring or when produced with day length manipulation
• Fusarium tolerant

**MINIMUM GERM:** 80%
**SEED FORM:** Raw
**CROP TIME:** 13 Weeks
**STEM LENGTH:** 75 – 90cm
**SPACING:** 4 x 5”
**COLORS / MIXES:** 9 / 1

**APRICOT**
**BLUE**
**PINK**
**RED**
**LIGHT BLUE**
**ROSE**
**SCARLET**
**WHITE**
**YELLOW**

**BLUE**
**BLUE TIPPED WHITE**
**RED**
**RE TIPPED WHITE**
**SCARLET**
**WHITE**
**YELLOW**

**DEEP ROSE**
**ROSE**
**ROSE TIPPED WHITE**

**SERENADE**

Callistephus Chinensis I Cut Flower

• Don’t be fooled by cheap copies, this is the REAL Matsumoto!
• Easy to program, and stem height can be manipulated with various growing techniques
• Strong, long stems with an upright flowering habit
• Production cycle is approximately 14 weeks in spring or when produced with day length manipulation
• Fusarium tolerant

**MINIMUM GERM:** 80%
**SEED FORM:** Coated
**CROP TIME:** 14 Weeks
**STEM LENGTH:** 75 – 90cm
**SPACING:** 4 x 5”
**COLORS / MIXES:** 10 / 1 (Mix not shown)
Campanula

**F1 CAMPANULA MEDIUM ANNUUM | CUT FLOWER**

- Easy and economical to produce with moderate temperatures (55°F/13°C) & photoperiod manipulation
- Sow mid-August to mid-February for flowering from late late-December through June
- Sturdy flower petals hold up well in shipping and provide excellent vase life
- Standard campanula cut flower with large flower cups
- Flowers 19 weeks after sowing

**MINIMUM GERM:** 80%

**SEED FORM:** Pelleted

**CROP TIME:** Winter to Spring 19 Weeks

**STEM LENGTH:** 90 – 100cm

**SPACING:** 5 x 5”

**COLORS / MIXES:** 2 / 0

---

**F1 CAMPANULA MEDIUM ANNUUM | CUT FLOWER**

- Great plug performance
- Uniform, shorter flowering window; quicker cycle for growers
- Uniform plant height with upward-facing flowers makes for better transportation
- Series includes five colors
- Flowers 18 weeks after sowing

**MINIMUM GERM:** 80%

**SEED FORM:** Pelleted

**CROP TIME:** Winter to Spring 18 Weeks

**STEM LENGTH:** 90 – 100cm

**SPACING:** 5 x 5”

**COLORS / MIXES:** 5 / 0
F1 CAMPANULA MEDIUM ANNUUM | CUT FLOWER

- Easy and economical to produce with moderate temperatures (55°F/13°C) and photoperiod manipulation
- Sow mid-August to mid-February for flowering from late-December through June
- Sturdy flower petals hold up well in shipping and provide excellent vase life
- Bouquet type with smaller, more abundant flowers and short peduncles
- Thinner, flexible stems weigh less reducing transportation costs
- Flowers in 18 weeks after sowing

**MINIMUM GERM:** 80%
**SEED FORM:** Pelleted
**CROP TIME:** Winter to Spring 18 Weeks
**STEM LENGTH:** 90 – 100cm
**SPACING:** 5 x 5”
**COLORS / MIXES:** 5 / 1
**CELOSIA ARGENTEA CRISTATA** **I CUT FLOWER**

- Can be direct sown in the cut flower bed or field and is very well suited to production in areas with high temperatures
- Dense plantings produce strong stems and quality cuts
- Very uniform in growth pattern

- **MINIMUM GERM:** 85%
- **SEED FORM:** Raw
- **CROP TIME:** 12 weeks (direct sowing) 13 weeks (from transplanting)
- **STEM LENGTH:** 60cm
- **SPACING:** 4 x 4”
- **COLORS / MIXES:** 6 / 1 (Persimmon not shown)

**F1 DELPHINIUM ELATUM** **I CUT FLOWER**

- Ideally suited for winter production and will flower with a minimum of 10 hours of day length
- Suitable for tunnel, greenhouse and field production
- Extremely stable and especially bred for short-day production schedules
- F1 hybrid vigor guarantees good results from subsequent flushes following first harvest

- **MINIMUM GERM:** 85%
- **SEED FORM:** Raw
- **CROP TIME:** Fall to Spring 16-18 weeks (first flowering)
- **STEM LENGTH:** 120 – 150cm
- **SPACING:** 6 x 8”
- **COLORS / MIXES:** 3 / 0
F1 DELPHINIUM GRANDIFLORUM | CUT FLOWER | POTTED CROP

- Early blooming
- Delicate star-shaped flowers
- Perfect bouquet component
- Versatile! Great as a cut, bedding or potted crop

<table>
<thead>
<tr>
<th>MINIMUM GERM:</th>
<th>85%</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEED FORM:</td>
<td>Raw</td>
</tr>
<tr>
<td>CROP TIME:</td>
<td>18 – 20 Weeks</td>
</tr>
<tr>
<td>STEM LENGTH:</td>
<td>60 – 100cm</td>
</tr>
<tr>
<td>SPACING:</td>
<td>8 x 8”</td>
</tr>
<tr>
<td>COLORS / MIXES:</td>
<td>2 / 0</td>
</tr>
</tbody>
</table>

BEDDING PLANT SPECS

<table>
<thead>
<tr>
<th>CONTAINER SIZE:</th>
<th>Gallon</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLANT HEIGHT:</td>
<td>16 – 20”</td>
</tr>
<tr>
<td>PLANT WIDTH:</td>
<td>8 – 10”</td>
</tr>
</tbody>
</table>

F1 BRASSICA OLERACEA | CUT FLOWER

- A new cabbage that offers a unique and on-trend look to arrangements
- Stems grow straight—easy to cut and bunch!
- White: Flowers are bright white with a bright pink center
- Pure White: Flowers are white with a soft pink center

<table>
<thead>
<tr>
<th>MINIMUM GERM:</th>
<th>90%</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEED FORM:</td>
<td>Raw</td>
</tr>
<tr>
<td>CROP TIME:</td>
<td>Summer to Fall 16 – 17 Weeks</td>
</tr>
<tr>
<td>STEM LENGTH:</td>
<td>60 – 75cm</td>
</tr>
<tr>
<td>SPACING:</td>
<td>4 x 4”</td>
</tr>
<tr>
<td>COLORS / MIXES:</td>
<td>3 / 0</td>
</tr>
</tbody>
</table>

PLANT HEIGHT: 16 – 20”
**F1 CLARKIA AMOENA | CUT FLOWER**

- Lateral branching produces up to 15 stems, carrying 5 or 6 solid clusters of blooms
- Suitable for high-density packing and shipping over long distances
- Grow year-round with the use of daylength manipulation
- Best grown at 60 – 65°F/15 – 18°C day, 50°F/10°C night, ideal temperature should not exceed 75°F/25°C

**MINIMUM GERM:** 85%

**SEED FORM:** Raw

**CROP TIME:** Winter to Spring 15 – 21 Weeks

**STEM LENGTH:** 60 – 75cm

**SPACING:** 4 x 4”

**COLORS / MIXES:** 6 / 1

---

**GRACE**

**COLORS / MIXES:**
- LAVENDER
- RED
- ROSE/PINK
- SALMON
- SHELL PINK
- WHITE
- MIX
F1 Eustoma Grandiflorum | Cut Flower

- Group 0 / Standard Double Flower
- Less blindness than with other standards on the market
- Ideal for winter harvest with high yield
- Easier to get good stem height

**Borealis**

- **MINIMUM GERM:** 80%
- **SEED FORM:** Pelleted
- **CROP TIME:** Winter 22 – 24 Weeks
- **STEM LENGTH:** 90 – 120cm
- **SPACING:** 4 x 6”
- **COLORS / MIXES:** 2 / 0

**Cuts**

- **BLUE**
- **YELLOW**

**Doublini**

- **MINIMUM GERM:** 80%
- **SEED FORM:** Pelleted
- **CROP TIME:** Winter to Spring 22 – 24 Weeks
- **STEM LENGTH:** 60 – 90cm
- **SPACING:** 4 x 6”
- **COLORS / MIXES:** 1 / 0

- **BLUE**
**F1 Eustoma Grandiflorum | Cut Flower**

- **Group 1 / Standard Double Flower**—spray type
- The world’s first 100% all double, large-flowered lisianthus for cut flower production
- Flower stalks are strong and easily support the large flowers

<table>
<thead>
<tr>
<th>Minimum Germ:</th>
<th>80%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seed Form:</td>
<td>Pelleted</td>
</tr>
<tr>
<td>Crop Time:</td>
<td>Winter to Spring 22 – 24 Weeks</td>
</tr>
<tr>
<td>Stem Length:</td>
<td>90 – 120 cm</td>
</tr>
<tr>
<td>Spacing:</td>
<td>4 x 6&quot;</td>
</tr>
<tr>
<td>Colors / Mixes:</td>
<td>7 / 1</td>
</tr>
</tbody>
</table>

**ECHO**

**EXCALIBUR 2**

- **Group 2 / Standard Double Flower**
- Suitable for equatorial areas where temperatures are a bit higher than recommended for lisianthus
- Uniform plug performance and less sensitivity to rosette
- Slightly earlier than Flamenco and Mariachi®
- Achieves sufficient height with top flowering and more usable buds for better presentation

<table>
<thead>
<tr>
<th>Minimum Germ:</th>
<th>80%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seed Form:</td>
<td>Pelleted</td>
</tr>
<tr>
<td>Crop Time:</td>
<td>Spring to Mid-Summer 22 – 24 Weeks</td>
</tr>
<tr>
<td>Stem Length:</td>
<td>90 – 120 cm</td>
</tr>
<tr>
<td>Spacing:</td>
<td>4 x 6&quot;</td>
</tr>
<tr>
<td>Colors / Mixes:</td>
<td>4 / 0</td>
</tr>
</tbody>
</table>
**Mariachi® Series**

**F1 Eustoma Grandiflorum | Cut Flower**

- Group 2 & 3 / Standard Quadruple
- Extra-double, large camellia-like blooms with thick petals
- 2 – 2.75-inch rose-shaped flowers

**Mariachi® Grande White**

**F1 Eustoma Grandiflorum | Cut Flower**

- Group 2 & 3 / Standard Quadruple
- Extra-double, large camellia-like blooms with thick petals
- 2 – 2.75-inch rose-shaped flowers

**MARIACHI COLORS / MIXES:**

- 12 / 0

**MINIMUM GERM:**

80%

**SEED FORM:**

Pelleted

**MARIACHI CROP TIME:**

Spring to Mid-Summer 22 – 24 Weeks

**MARIACHI GRANDE WHITE CROP TIME:**

Summer to Fall 22-24 Weeks

**STEM LENGTH:**

90 – 120cm

**SPACING:**

4 x 6”

**MARIACHI COLORS / MIXES:**

12 / 0

**Together We Flourish 15**
# Lisianthus

## ROSANNE 1
### F1 Eustoma Grandiflorum I Cut Flower
- **Group 1 / Double Flower**
- Unique colors and patterns with more usable buds
- Thick flower petals and top flowering reduce botrytis problems during transportation
- Flower stigmas do not open (no pollen is shed) providing excellent vase life

| MINIMUM GERM: | 80% |
| SEED FORM: | Pelleted |
| CROP TIME: | Winter to Spring 22 – 24 Weeks |
| STEM LENGTH: | 90 – 120cm |
| SPACING: | 4 x 6" |
| COLORS / MIXES: | 3 / 0 |

### Colors / Mixes:
- Black Pearl
- Green
- Brown

## ROSANNE 2
### F1 Eustoma Grandiflorum I Cut Flower
- **Group 2 / Double Flowers**
- Deep Green color with many flower petals
- Excellent vase life with thick petals that reduce botrytis issues during transportation
- Flower stigmas do not open, providing excellent vase life

| MINIMUM GERM: | 80% |
| SEED FORM: | Pelleted |
| CROP TIME: | Spring to Mid-summer 22 – 24 Weeks |
| STEM LENGTH: | 90 – 120cm |
| SPACING: | 4 x 6" |
| COLORS / MIXES: | 1 / 0 |

### Colors / Mixes:
- Black Pearl
- Clear Green
- Brown

## ROSANNE 3
### F1 Eustoma Grandiflorum I Cut Flower
- **Group 3 / Double Flowers**
- New Brown is a trendy addition to the Rosanne collection
- Excellent vase life with thick petals that reduce botrytis issues during transportation
- Flower stigmas do not open, providing excellent vase life

| MINIMUM GERM: | 80% |
| SEED FORM: | Pelleted |
| CROP TIME: | Summer to Fall, 22 – 24 Weeks |
| STEM LENGTH: | 90 – 120cm |
| SPACING: | 4 x 6" |
| COLORS / MIXES: | 1 / 0 |

### Colors / Mixes:
- Black Pearl
- Clear Green
- Brown
**Rosita® 1, 2 & 3**

**F1 Eustoma Grandiflorum | Cut Flower**

- The Rosita® family, along with Excalibur, is the standard in double-flowered lisianthus
- Thick petals, top flowering and strong stems make for easy transport without botrytis problems
- Medium-sized, rose-shaped flowers
- Excellent vase life with more usable buds

**MINIMUM GERM:** 80%

**SEED FORM:** Pelleted

**Rosita® 1 Crop Time:** Winter to Spring 22 – 24 Weeks

**Rosita® 2 Crop Time:** Spring to Mid-Summer 22 – 24 Weeks

**Rosita® 3 Crop Time:** Summer to Fall 22 – 24 Weeks

**STEM LENGTH:** 90 – 120cm

**SPACING:** 4 x 6”

**Rosita® 1 Colors / Mixes:** 4 / 0

**Rosita® 2 Colors / Mixes:** 13 / 0

**Rosita® 3 Colors / Mixes:** 8 / 0

---

**Rosita® 2**

- Group 2 / Spray Double Flower
- Suitable for Spring to Mid-Summer flowering

**Colors / Mixes:**
- Apricot
- Blue Flash
- Blue Picotee
- Green
- Hot Lips
- Jade
- Pink
- Pink Flash
- Pink Flash II
- Purple
- Sapphire
- White

---

**Rosita® 1**

- Group 1 / Spray Double Flower
- Suitable for Winter to Spring flowering

**Colors / Mixes:**
- Green
- Pink Picotee
- Rose Pink
- White

---

**NEW!**

- Higher cut flower yield
- Bigger flowers
- Better vase life
- Improved shelf life

**Minimum GPM:** 80%

**Seed Form:** Pelleted
Lisianthus

**ROSETA® 3**

- Group 3 / Spray Double Flower
- Suitable for Summer to Fall flowering

BLUE IMPROVED
GREEN
LAVENDER
PINK IMPROVED
PINK PICOTEE
PURE WHITE
RED
YELLOW

**NEW!**
New Series!

SOLO

F1 Eustoma Grandiflorum | Cut Flower

- The first pollen-free series in the world
- No stained flowers
- Even longer vase life!
- Strong petals; good for transportation
- Group 2 / Spring flowering

MINIMUM GERM: 80%
SEED FORM: Pelleted
CROP TIME: Spring to Mid-Summer 22 – 24 Weeks
STEM LENGTH: 60 – 90cm
SPACING: 4 x 6"
COLORS / MIXES: 4 / 0

Lisianthus SEED
**F1 EUSTOMA GRANDIFLORUM** | CUT FLOWER

- Group 2 / Double Flowers
- Large, fringed, gorgeous flowers
- Strong petals withstand the rigors of shipping
- Great, top flowering habit

**MINIMUM GERM:** 80%

**SEED FORM:** Pelleted

**CROP TIME:** Spring to Mid-Summer 22 – 24 Weeks

**STEM LENGTH:** 60 – 90cm

**SPACING:** 4 x 6”

**COLORS / MIXES:** 1 / 0

---

**F1 EUSTOMA GRANDIFLORUM** | CUT FLOWER

- Group 3/Double flowers
- Strong petals withstand the rigors of shipping
- Champagne has larger flowers and higher petal count than Voyage 2
- Long vase life

**MINIMUM GERM:** 80%

**SEED FORM:** Pelleted

**CROP TIME:** Spring to Mid Summer 22 – 24 Weeks

**STEM LENGTH:** 60 – 90cm

**SPACING:** 4 x 6”

**COLORS / MIXES:** 1 / 0
# Lisianthus Cut Flowers at a Glance

<table>
<thead>
<tr>
<th>Series</th>
<th>Group</th>
<th>Crop Time</th>
<th>Stem Length</th>
<th>Colors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Borealis</td>
<td>0</td>
<td>Winter 22 – 24 Weeks</td>
<td>36 – 48&quot;</td>
<td>2</td>
</tr>
<tr>
<td>Doublini</td>
<td>1</td>
<td>Winter – Spring 22 – 24 Weeks</td>
<td>26 – 34&quot;</td>
<td>1</td>
</tr>
<tr>
<td>Echo</td>
<td>1</td>
<td>Winter – Spring 22 – 24 Weeks</td>
<td>36 – 48&quot;</td>
<td>7</td>
</tr>
<tr>
<td>Excalibur 2</td>
<td>2</td>
<td>Spring – Mid Summer 22 – 24 Weeks</td>
<td>36 – 48&quot;</td>
<td>4</td>
</tr>
<tr>
<td>Mariachi®</td>
<td>2</td>
<td>Spring – Mid Summer 22 – 24 Weeks</td>
<td>36 – 48&quot;</td>
<td>11</td>
</tr>
<tr>
<td>Mariachi® Grande White</td>
<td>3</td>
<td>Summer – Fall 22 – 24 Weeks</td>
<td>36 – 48&quot;</td>
<td>1</td>
</tr>
<tr>
<td>Rosita® 1</td>
<td>1</td>
<td>Winter – Spring 22 – 24 Weeks</td>
<td>36 – 48&quot;</td>
<td>4</td>
</tr>
<tr>
<td>Rosita® 2</td>
<td>2</td>
<td>Spring – Mid Summer 22 – 24 Weeks</td>
<td>36 – 48&quot;</td>
<td>12</td>
</tr>
<tr>
<td>Rosita® 3</td>
<td>3</td>
<td>Summer – Fall 22 – 24 Weeks</td>
<td>36 – 48&quot;</td>
<td>8</td>
</tr>
<tr>
<td>Rosanne 1</td>
<td>1</td>
<td>Winter – Spring 22 – 24 Weeks</td>
<td>36 – 48&quot;</td>
<td>3</td>
</tr>
<tr>
<td>Rosanne 2</td>
<td>2</td>
<td>Spring to Mid Summer 22 – 24 Weeks</td>
<td>36 – 48&quot;</td>
<td>1</td>
</tr>
<tr>
<td>Rosanne 3</td>
<td>3</td>
<td>Summer – Fall 22 – 24 Weeks</td>
<td>36 – 48&quot;</td>
<td>1</td>
</tr>
<tr>
<td>Solo</td>
<td>2</td>
<td>Spring – Mid Summer 22 – 24 Weeks</td>
<td>24 – 36&quot;</td>
<td>4</td>
</tr>
<tr>
<td>Voyage 2</td>
<td>2</td>
<td>Spring – Mid Summer 22 – 24 Weeks</td>
<td>24 – 36&quot;</td>
<td>11</td>
</tr>
<tr>
<td>Voyage 3</td>
<td>3</td>
<td>Spring – Mid Summer 22 – 24 Weeks</td>
<td>24 – 36&quot;</td>
<td>1</td>
</tr>
</tbody>
</table>

## Rosanne 2 Clear Green

![Image of Rosanne 2 Clear Green flowers]
COCO MARIGOLD™

MARIGOLD | CUT FLOWER

- This gorgeous series offers three colors, including the deepest orange on the market
- Offers uniform earliness, long stem length and fully double blooms
- Suitable for tighter space production, especially when disbudded

MINIMUM GERM: 80%
SEED FORM: Bobtail
CROP TIME: 12 - 15 Weeks
STEM LENGTH: 60 - 90cm
SPACING: 5 x 5"
PINCH: 8 x 8"
COLORS / MIXES: 3 / 0
**F1 Antirrhinum Majus | Cut Flower**

- Early flowering variety belonging to Group 1
- Very uniform growth under short day conditions in winter
- Bright, clear colors
- Tightly-spaced florets on long flower spikes

**MINIMUM GERM:** 80%

**SEED FORM:** Raw

**CROP TIME:** Group 1, Spring 16 – 20 Weeks

**STEM LENGTH:** 120cm

**SPACING:** 8 – 10 per ft²

**COLORS / MIXES:** 6 / 0

---

**F1 Antirrhinum Majus | Cut Flower**

- Group 2.5 – 4 flowering
- Easily managed—quick cycle turn with very high quality
- Thick strong flower stems with excellent length
- Bred for equatorial production areas

**MINIMUM GERM:** 80%

**SEED FORM:** Raw

**CROP TIME:** Groups 2.5 to 4, Mid-Spring to Fall 16 – 20 Weeks

**STEM LENGTH:** 120cm

**SPACING:** 8 – 10 per ft²

**COLORS / MIXES:** 5 / 0

---

**Snapdragon**

- **Admiral**
  - CRIMSON
  - PINK
  - PINK BICOLOR
  - DEEP ROSE (GROUP 4)
  - IVORY WHITE (GROUP 3)
  - PINK (GROUP 3.5)
- **Calima**
  - PURPLE
  - WHITE
  - YELLOW
  - PURE WHITE (GROUP 2.5)
  - YELLOW (GROUP 2.5)
MATTHIOLA INCANA | CUT FLOWER

Stock Iron is a mid-season variety that sets buds when the plants have a maximum of 10 leaf pairs. Ideally, maintain 59–65°F/15–18°C days and 50°F/10°C nights for 3 weeks. If optimum temperatures cannot be achieved, applying long days (14 hours) aids in flower bud initiation.

- Iron is aptly named for the strong stems and robust growth
- An innovative, high-quality stock producing tight flower spikes on stems that do not stretch
- Early-mid season flowering with 55% double flowers

MINIMUM GERM: 80%
SEED FORM: Raw
CROP TIME: Cool 13 – 15 Weeks
STEM LENGTH: 60cm
SPACING: 5 x 5”
COLORS / MIXES: 8 / 0

CHEERFUL & MID-SEASON CHEERFUL

MATTHIOLA INCANA | CUT FLOWER

- 90% double flowers without selection—incredible fragrance and form
- Cheerful is less delayed in warmer temperatures compared to Mid Cheerful

MINIMUM GERM: 80%
SEED FORM: Raw
CHEERFUL CROP TIME: Cool 11 – 13 Weeks
MID-SEASON CHEERFUL CROP TIME: Cool 13 – 15 Weeks
STEM LENGTH: 90cm
SPACING: 5 x 5”
CHEERFUL COLORS / MIXES: 2 / 0
MID-SEASON CHEERFUL COLORS / MIXES: 1 / 0

CHEERFUL

- Strong, non-branching stems with deep green pubescent foliage

MID-SEASON CHEERFUL

- Ideal for use under warmer temperatures where longer flower stems are desired
MATTHIOLE INCANA | CUT FLOWER | POTTED CROP

- Strong stems support a beautiful spray of sweetly-scented flowers—ideally suited for bouquets but can also be used as a spring bedding plant in some markets
- Early to bloom with 55% double flowers
- Suitable for a 6-in pot or gallon with the use of PGRs
- Requires pinching of the principal flower stem when the first flower opens to force the secondary development of the other 4 stems to achieve a spray-style presentation

MINIMUM GERM: 80%
SEED FORM: Raw
CROP TIME: Cool 13 – 15 Weeks
STEM LENGTH: 60cm
SPACING: 5 x 5”
COLORS / MIXES: 12 / 0
**VINCENT®**

**F1 HELIANTHUS ANNUUS | CUT FLOWER**

- Pollen-free and day-length neutral for year round production
- High germ, short crop cycle and tight flowering window
- Round, overlapping flower petals create a semi-double look
- Flowers form at a 45° angle on strong stems for a superior presentation
- Small upper leaves make Vincent ideal for bouquets

**MINIMUM GERM:** 90%

**SEED FORM:** Raw

**CROP TIME:** 8 – 10 Weeks

**STEM LENGTH:** 150 – 180cm

**SPACING:** 5 x 5”

**COLORS / MIXES:** 2 / 0

**VINCENT’S CHOICE:**
Features the well-loved combo of brown centers and deep orange petals

**VINCENT’S FRESH:**
Features a crisp, green center which is a clear alternative to current selection
SUNBRIGHT

- More sensitive to photoperiod, flowering from 50 days in winter to 70 – 80 days in summer
- Produces x-large flowers under long photoperiods
- Maintain a minimum temperature of 45°F/7°C to prevent flower damage and maintain active growth

SUNBRIGHT SUPREME

- Less sensitive to photoperiod, flowering from 50 days in winter to 65 – 70 days in summer
- Maintain a minimum temperature of 50°F/10°C to prevent flower damage and maintain active growth

F1 HELIANTHUS ANNUUS | CUT FLOWER

- Performs well under short day and low temperature conditions (winter)
- Both are single-flowered, pollenless types that hold up extremely well in shipping
- Strong necks for upward facing flower heads

MINIMUM GERM: 90%
SEED FORM: Raw, Primax
SUNBRIGHT CROP TIME: 7 – 11 Weeks
SUNBRIGHT SUPREME CROP TIME: 7 – 10 Weeks
STEM LENGTH: 150 – 180cm
SPACING: 5 x 5”
SUNBRIGHT COLORS / MIXES: 1 / 0
SUNBRIGHT SUPREME COLORS / MIXES: 1 / 0
THE SAKATA SEED AMERICA MISSION:
TO CONTRIBUTE SUSTAINABLY TO THE BETTERMENT OF LIFE AND CULTURE OF PEOPLE AROUND THE WORLD WITH VALUES CREATED THROUGH OUR INNOVATIVE FLOWER AND VEGETABLE VARIETIES AND THROUGH OUR SERVICES.