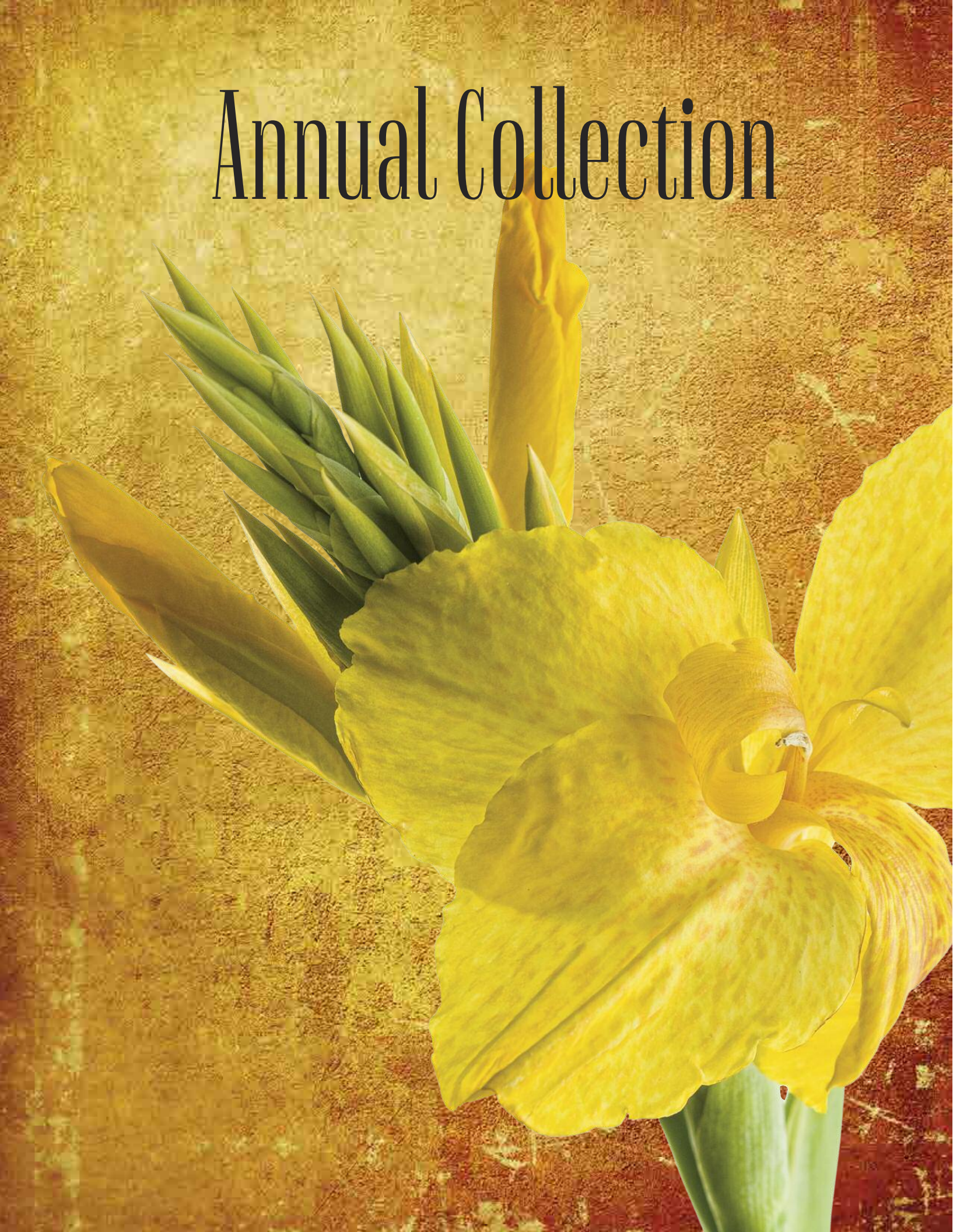
Annual Collection



ARTIST® Purple *Ageratum* 'Agmontis' USPP15301 Can2049

ARTIST® Blue *Ageratum* 'Agsantis' USPP15289 Can2050

ARTIST® Ageratum

LANDSCAPE 8-12" Vigor: 2

These bountiful bloomers are sturdy, compact, and very heavily branched growers that have outstanding heat tolerance and add masses of brilliant color to beds and containers.

GROWING TIPS FOR ARTIST®

- Requires high light in production.
- Requires early growth regulator.
- 200 ppm fertilizer for optimal growth.
- In growing group BB (see page 253).*

AWARD WINNERS

ARTIST® *Ageratum*
45 Awards including: Excellent Rating, Disney; Best of the Best, University of Georgia; Best of Species, Penn State; Top Pick, Dallas Arboretum; Top Performer, Kansas State University

Additional Culture Information for ARTIST®

pH/EC:	5.8 - 6.2/.6 -.9
Rooting Out Temperature:	65-72º F (18-22º C)
Growing Temperature:	65-72º F (18-22º C)
Holding Temperature:	50-60º F (10-16º C)
Water Requirements:	Moderate to Moist
Planting and Timing:	Early Spring through Summer Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12
Spring Outdoor Finish:	Last to go outside

Notes:
Pinching is not recommended. A light Sumagic® spray (2-5 ppm) or B-9 (2500-5000) has been shown to be effective on Ageratum. Growth can also be controlled using holding temperature. Winter flowering occurs in Sunbelt states.

VIGOR KEY – 1 to 4, with 1 representing the slower, smaller growers and 4 representing the quickest, largest growers. For combinations, choose varieties with the same vigor rating to ensure success.

* First letter is Growing Temperature, second letter is pH.

NEW

Butterfly *Argyranthemum frutescens*
12-18"

VANILLA BUTTERFLY®
Argyranthemum frutescens 'Astarvan' USPP14642 Can2148
12-18"

WHITE BUTTERFLY™
Argyranthemum frutescens '**' USPPAF CanPBRAF
18-36"

BUTTERFLY Argyranthemum frutescens

LANDSCAPE Vigor: 3

Our Marguerites continue to set the standard for bloom production, heat tolerance, and versatility.

WHITE BUTTERFLY™
Argyranthemum frutescens '**' USPPAF CanPBRAF

Never before have we seen the heat tolerance of Butterfly Argyranthemum replicated in pure white; truly a breeding breakthrough. Evenly matched with others in the series for timing and size, making it easy for growers and retailers to offer the entire series. Grow in 4.25 Grande™ containers, monocultures or in combination with other medium vigor varieties. New this year.

GROWING TIPS FOR BUTTERFLY

- Requires high light in production.
- 200 ppm fertilizer for optimal growth.
- Low light, tight spacing, and wet foliage will lead to disease.
- Prior to mid-March, a pinch may be beneficial on 4-5" containers. After mid-March, a pinch should not be necessary on 4-5."
- Transplant argyranthemum liners first, then water in quickly after transplant.
- In growing group AB (see page 253).

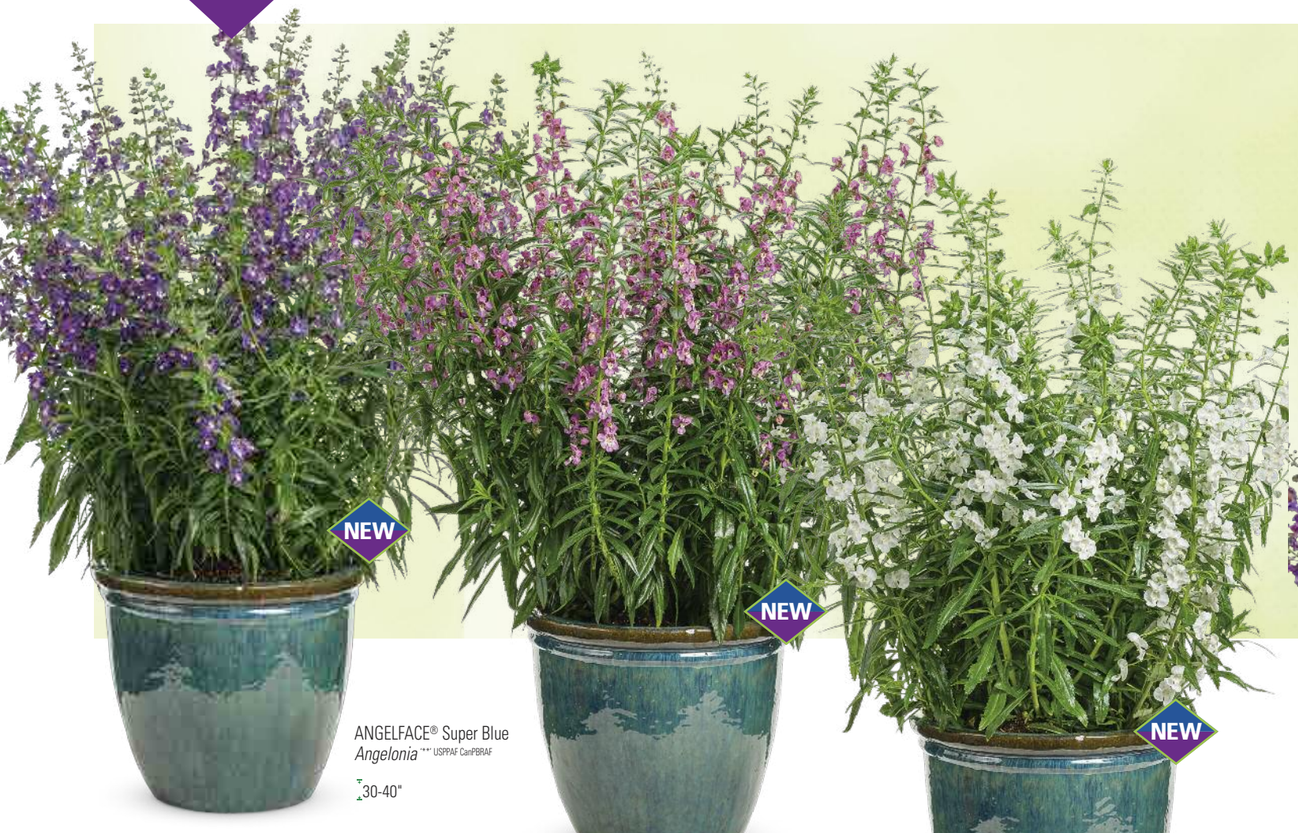
Additional Culture Information for Argyranthemum

pH/EC:	5.8 - 6.2/.6-.9
Rooting Out Temperature:	65-72º F (18-22º C)
Growing Temperature:	60-65º F (16-18º C)
Holding Temperature:	40-50º F (4-10º C) outdoors
Water Requirements:	Moderate to Moist
Planting and Timing:	Early Spring through Fall Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 5-7; for 6"/gallon, 7-8; for 8", 7-9; for 10-12", 10-14
Spring Outdoor Finish:	First to go outside

Notes:
No pinch needed for 4-5" pots planted after mid-March. When planted prior to mid-March a pinch will be beneficial. Single plants in 6" and gallons as well as all 8" and larger containers should be pinched 1-2 weeks after transplant. 5-10 ppm Sumagic® spray or a 1-3 ppm Bonzi® drench will help control growth. Winter flowering occurs in the Sunbelt states when grown under long days.

AWARD WINNERS

Butterfly and VANILLA BUTTERFLY® *Argyranthemum*
14 Awards including: Excellent Rating, Massachusetts Horticultural Society; Best of Species, Penn State; Top Performer, Oklahoma State; Top Ten, Michigan State; Top Consumer Choice - Winter, University of Florida



ANGELFACE® Super Blue
Angelonia '**' USPPAF CanPBRAF
30-40"

ANGELFACE® Super Pink
Angelonia '**' USPPAF CanPBRAF
30-40"

ANGELFACE® Super White
Angelonia '**' USPPAF CanPBRAF
30-40"

ANGELFACE® Wedgwood Blue
Angelonia 'ANWEDGIM' USPPAF CanPBRAF
18-24"

ANGELFACE® Blue
Angelonia 'ANBLUIM' USPP22390 Can4379
18-24"

ANGELFACE® White
Angelonia 'Anwhitim' USPP19866
18-24"

ANGELFACE® Perfectly Pink
Angelonia '**' USPPAF CanPBRAF
18-30"

ANGELFACE® Angelonia

LANDSCAPE 18-24" Vigor: 3 (Angelface Blue, Wedgwood Blue and White are Vigor: 2)

Angelface varieties are prized as vertical accent plants everywhere. Undoubtedly the finest angelonia on the market, Angelface varieties are semi-upright with a good branching habit, have extra large, brilliantly colored blooms, and thrive in hot, humid conditions. These beauties make the perfect summer gallons.

ANGELFACE® Perfectly Pink *Angelonia* '**' USPPAF CanPBRAF
Replaces Angelface Pink. Larger, more plentiful pink flowers and increased vigor. Easier for growers to get into color for spring sales and greater visual impact on the bench. New this year.

ANGELFACE® SUPER Series

These fabulous new super-sized Angelonias stand nearly double the height of standard Angelface varieties. They are outstanding planted en masse in landscapes and used as thrillers in large containers.

ANGELFACE® Super Blue *Angelonia* '**' USPPAF CanPBRAF
Large, blue-purple flowers appear on sturdy scapes from spring until frost without deadheading. New this year.

ANGELFACE® Super Pink *Angelonia* '**' USPPAF CanPBRAF
Large, clear pink flowers appear on sturdy scapes from spring until frost without deadheading. New this year.

ANGELFACE® Super White *Angelonia* '**' USPPAF CanPBRAF
Large, pure white flowers appear on sturdy scapes from spring until frost without deadheading. New this year.

GROWING TIPS FOR ANGELFACE®

- Requires high light in production.
- 150-200 ppm fertilizer for optimal growth.
- Warm and slightly dry conditions after transplanting speeds root-in and growth.
- Remember all Angelonia prefer warm production temperatures and it may be best to bring shipments in mid-spring.
- Scout regularly for aphids which can be problematic.
- In growing group CB (see page 253).

AWARD WINNERS

ANGELFACE® *Angelonia*
64 Awards including: Superior Rating, Disney; Top Performer, Ohio State; Excellent Rating, Boerner Botanical Garden, Milwaukee, Wisconsin; Best of the Best, University of Georgia; Best Varieties, Penn State; Top Pick, Cornell University

Additional Culture Information for ANGELFACE®

pH/EC:	5.8 - 6.2/.6-.9
Rooting Out Temperature:	65-72° F (18-22° C)
Growing Temperature:	70-75° F (21-24° C)
Holding Temperature:	60-65° F (16-18° C)
Water Requirements:	Moderate to Moist
Planting and Timing:	Spring through Summer Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 5-7; for 6"/gallon, 7-8; for 8", 7-9; for 10-12", 10-14
Spring Outdoor Finish:	Do not finish outside

Notes:
Pinch 6" or larger containers at transplant for large plugs, 2 weeks after transplant for smaller containers. Florel® causes tip burn and distorted growth. Sumagic® is effective (2-5 ppm), but other growth regulators can delay flowering.

NEW

QUICKSILVER™ *Artemisia stelleriana*

QUICKSILVER™ Artemisia stelleriana

LANDSCAPE 6-10" Zones 5-9 Vigor: 3

Meet one of the best new plants for in-demand low water combinations and landscapes. Lacy textured, silvery leaves artfully weave their way through combinations, playing well with other medium vigor plants and coordinating well with any colors you choose. Also useful as a low maintenance spreader for sunny landscapes. New this year.

GROWING TIPS FOR QUICKSILVER™

- Good water management practices are critical to healthy plant growth; water well and then allow the plant to draw the water from the soil.
- Growing plants with too much irrigation can cause chlorisis, keep plants on the dry side.
- Once established in the container, plants can be moved outdoors to create more greenhouse space. Protect if temperatures drop below 29° F especially in the first 10 days after moving outside.
- If the crop becomes overgrown, plants can be sheared to shape. They can also be shaped after flowering in landscape use.
- 150-200 ppm fertilizer for optimal growth.
- In growing group AC (see page 253).

Additional Culture Information for QUICKSILVER™

pH/EC:	5.8 - 6.5/ 0.6 - 0.9
Rooting Out Temperature:	65-72° F (18-22°C)
Growing Temperature:	55-65° F (13-18° C)
Holding Temperature:	40-50° F (5-10° C)
Water Requirements:	Moderate
Planting and Timing:	Early Spring through Fall Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 8-10
Spring Outdoor Finish:	First to go outside

Notes:
For all sizes of containers, pinch the liner 1–2 weeks after transplant; for containers larger than 6" and for hanging baskets, trim around the edge of the container as needed prior to spacing or hanging of the baskets. Once established Quicksilver™ is a very fast growing plant, growth can be controlled by reducing fertility or withholding water.

PEGASUS® *Begonia*

PEGASUS® Begonia

LANDSCAPE 12-16" Vigor: 3

A gorgeous alternative to impatiens for the shade, this impressive begonia features glossy, durable, deep green leaves with extensive silver markings. Its upright habit makes it an eye-catching thriller in combination containers and it looks great in landscapes too.

GROWING TIPS FOR PEGASUS®

- 150-200 ppm N.
- No growth regulators recommended or needed.
- Good air circulation and bright but filtered light will decrease the threat of botrytis.
- Pegasus is tough and durable, however still needs temps above 50° F to looks it's best.
- In growing group BA (see page 253).

AWARD WINNER

PEGASUS® *Begonia*

25 Awards including: Top Performer, Colorado State University; Top Performer, Jardin Daniel A Seguin; Top Performer, Massachusetts Horticulture Society; Leader of the Pack, North Carolina State University; Top Performer, Texas A&M; Top Performer, Univeristy of Tennessee-Knoxville

Additional Culture Information for PEGASUS®

pH/EC:	5.5 - 6.0 / .6 - .9
Rooting Out Temperature:	65-72° F (18-22° C)
Growing Temperature:	65-72° F (18-22° C)
Holding Temperature:	65-72° F (18-22° C)
Water Requirements:	Dry to Moderate
Planting and Timing:	Spring to Fall sales.
Finish Times in Weeks:	For 4-5", 5-7; for quarts, 6-8; for 6"/gallon, 7-9; for 10-12", 10-12
Spring Outdoor Finish:	Do not move outside until all danger of frost is past.

Notes:
Treat with preventative broad spectrum fungicidal drench at transplant. Scout crops regularly (at least once a week) for disease development.

SUREFIRE® Red *Begonia benariensis*

SUREFIRE® Rose *Begonia benariensis*

SUREFIRE® Begonia benariensis

LANDSCAPE 12-24" Vigor: 4

For all-season color in the sun and shade, no begonia beats Surefire. Its large flowers and strong, upright growth habit make it a stunning plant. Plus, its ability to thrive in full sun or deep shade makes Surefire a top performer anywhere in the garden, from containers to landscape. It's also a great shade option for areas prone to downy mildew. Ideal for 4.25 Grande™ and 1.0 Royale™ containers.

AWARD WINNER

SUREFIRE® *Begonia*
71 Awards including: Leader of the Pack, NC State; Best of the Best, University of Georgia; People's Pick, Oregon State; Top Performer In-Ground & Containers, Kansas State University

Key account customers can purchase and propagate seed on your own. Contact your propagator for additional information.

GROWING TIPS FOR SUREFIRE®

- 150-200 ppm fertilizer for optimal growth.
- Flower drop should be expected. Time properly to decrease messiness.
- Pinching should not be necessary except to shape.
- Requires good drainage and air circulation.
- In growing group BB (see page 253).

Additional Culture Information for SUREFIRE®

pH/EC:	5.5 - 6.2/.6-.9
Rooting Out Temperature:	65-72° F (18-22° C)
Growing Temperature:	65-72° F (18-22° C)
Holding Temperature:	65-72° F (18-22° C) outdoors
Water Requirements:	Dry to Moist
Planting and Timing:	Spring to Summer Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 5-7; for 6"/gallon, 6-8; for 8", 7-9; for 10-12", 10-12
Spring Outdoor Finish:	Do not finish outside until all danger of frost is past

Notes:
Treat with preventative broad-spectrum fungicidal drench one week after transplant. Scout crops regularly for disease development. Good air circulation, control of humidity, and sanitation practices are critical.

SUREFIRE® Rose *Begonia benariensis*

SUREFIRE® Red *Begonia benariensis*

CAMPFIRE™ Fireburst
Bidens 'KOIBID1346' USPPAF CanPBRAF

CAMPFIRE™ Fireburst

Bidens

LANDSCAPE 8-12" Vigor: 3

A breakthrough color for Bidens! Rich orange and yellow bicolor blooms are terrific accents in combination with other medium to high vigor plants. This heat and drought tolerant selection is also an easy option for landscapes. Its mature size is intermediate between Peter's Gold Carpet and Goldilocks Rocks® but is a bit taller and more mounding.

GROWING TIPS FOR BIDENS

- Requires high light in production.
- 150-200 ppm fertilizer for optimal growth.
- Goldilocks Rocks is much more compact than Peter's Gold Carpet.
- Good air circulation, control of humidity and good sanitation practices are critical.
- In growing group AB (see page 253).

Additional Culture Information for Bidens

pH/EC:	5.8 - 6.2/.6-.9
Rooting Out Temperature:	65-72° F (18-22° C)
Growing Temperature:	55-65° F (12-18° C)
Holding Temperature:	40-50° F (4-10° C) outdoors
Water Requirements:	Moderate
Planting and Timing:	Early Spring through Fall Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12
Spring Outdoor Finish:	Second to go outside

Notes:
For all sizes of containers, pinch the liner 1-2 weeks after transplant; for containers larger than 6" and for hanging baskets, trim around the edge of the container as needed prior to spacing or hanging of the baskets. B-9 (5000 ppm) or Sumagic® (5-10 ppm) are effective on Peter's Gold Carpet. B-9 (2500 ppm) and Sumagic® (5 ppm) should be effective on Goldilocks Rocks and Campfire Fireburst.

Peter's Gold Carpet
Bidens ferulifolia 'Goldteppich' USPP12880 Can1709

GOLDILOCKS ROCKS® *Bidens ferulifolia* 'BID 719' USPP22271 Can4377

GOLDILOCKS ROCKS®

Bidens ferulifolia

LANDSCAPE 12-14" Vigor: 3

Constant summer flowering in a semi-double bloom makes Goldilocks Rocks spectacular, and its compact, trailing habit creates exceptional hanging baskets and combos. Excellent for small container production but will reach a good size for consumers.

Peter's Gold Carpet

Bidens ferulifolia

LANDSCAPE 10-15" Vigor: 3

Masses of large, sweetly scented flowers the color of antique gold make Peter's Gold Carpet a 24-karat choice for beds, hanging baskets, and combos.

AWARD WINNERS
GOLDILOCKS ROCKS® and Peter's Gold Carpet *Bidens*
44 Awards including: Top Performer, University of Tennessee; Top Performer, Michigan State University; Top Performer, Calgary Zoo and Botanical Garden

SUNDAZE® Flame *Bracteantha bracteata* 'Flobraflla' USPP16950 Can2531

SUNDAZE® GOLDEN BEAUTY® *Bracteantha bracteata* 'Flubragbt' USPP15928 Can2297

SUNDAZE® Bracteantha bracteata

10-14" Vigor: 2

The finest strawflower series of all time, compact Sundaze varieties bloom early and are covered with flowers all season. Incredibly sun and heat tolerant.

GROWING TIPS FOR SUNDAZE®

- Requires high light in production.
- Needs no more than 150 ppm fertilizer for optimal growth.
- Run this plant lean and dry for best results.
- Water on flowers will prevent flower expansion, so water early in the morning at retail to allow flowers to open for morning sales.
- In growing group AB (see page 253).

Additional Culture Information for Sundaze®

pH/EC:	5.5 - 6.2/< .6
Rooting Out Temperature:	65-72º F (18-22º C)
Growing Temperature:	55-65º F (12-18º C)
Holding Temperature:	40-50º F (4-10º C) outdoors
Water Requirements:	Dry to Moderate
Planting and Timing:	Early Spring through Fall Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12
Spring Outdoor Finish:	Last to go outside

Notes:
No pinching needed for small containers; larger containers may need to be pinched. Sumagic® at 5-10 ppm is effective. Cool temperatures, high light, dry soil, and low feed will effectively control growth. Downy mildew can be a problem, so preventative sprays are recommended. Increased air circulation and watering in the morning will also help control mildew. Winter flowering occurs in Sunbelt states.

AWARD WINNER

SUNDAZE® *Bracteantha*
11 Awards including: Best of Breed, North Carolina State; Consumer Preferred Variety, Ohio State; Top Pick, Cornell University

ENDLESS™ Flirtation
Browallia 'UNHBR18' USPP19822

ENDLESS™ Illumination
Browallia 'UNHBR12' USPP18925

ENDLESS™ Browallia

LANDSCAPE 12-16" Vigor: 2

Expanding the list of options for shade, Endless® Browallia is a simple yet elegant, heat loving plant that requires little more than moisture to thrive in partial to full shade. Brilliant violet purple or white blooms dot the emerald green foliage all season without deadheading. Striking in monoculture containers and Grande™ containers, Endless is equally stunning mixed with other medium vigor varieties in shade loving hanging baskets.

AWARD WINNER

ENDLESS™ *Browallia*
22 Awards including:
Top Performer, Penn State; Best Varieties, Colorado State University; Top Performer, Ohio State Univ Extension; Excellent Cool Season, Disney

GROWING TIPS FOR ENDLESS™

- Browallia is a semi-tropical plant and prefers warmer production temps similar to Angelface® Angelonia. Avoid ordering too early if you do not have the ability to grow warm.
- Provide shade to bright filtered light in production.
- 75-100ppm fertilizer for optimum growth.
- Browallia requires a higher pH than Superbells®. If the pH is too low, yellowing foliage is the first sign. Monitor pH levels regularly.
- Good water management practices are critical to healthy plant growth.
- Good air circulation, control of humidity, and good sanitation practices are critical.
- In growing group CC (see page 253).

Additional Culture Information for Endless™

pH/EC:	6.5 - 7.5/.6 - .9
Rooting Out Temperature:	70-85º F (21-29º C)
Growing Temperature:	70-85º F (21-29º C)
Holding Temperature:	70-85º F (21-29º C)
Water Requirements:	Moderate to Moist
Planting and Timing:	Late Spring through Summer Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 5-7; for 6"/gallon, 6-9; for 8", 8-9; for 10-12", 9-13
Spring Outdoor Finish:	Last to go outside

Notes:
Pinch at 1-2 weeks after transplant. Treat with a preventative broad spectrum fungicidal drench at 1-2 weeks after transplant. Good sanitation practices include keeping greenhouses clean at all times, eliminating weeds and debris, disinfecting equipment and greenhouses as often as possible, and keeping hose ends off the floor.

ARTFUL® FIRE AND ICE®
Caladium hortulanum

18-30" Vigor: 2

ARTFUL® HEARTFIRE®
Caladium hortulanum

15-20" Vigor: 2

ARTFUL® Caladium hortulanum

LANDSCAPE

The Artful Caladiums are full multi-stemmed caladiums that have brilliant colors that only become richer in the sun. They are extremely heat tolerant and are versatile enough to grow in full sun or shade.

ARTFUL® FIRE AND ICE® *Caladium hortulanum*
This striking, multi-colored tropical makes a terrific accent plant paired with other medium-vigor varieties in combinations and landscapes. Compared to Artful Heartfire, it is taller, a bit more open, and more vigorous.

ARTFUL® HEARTFIRE® *Caladium hortulanum*
Displays a saturated, deep-burgundy leaf with a green edge and forms a dense canopy. Makes a terrific thriller in combos with medium-vigor varieties, such as Superbells® and Superbena® Royale.

AWARD WINNERS

ARTFUL® FIRE AND ICE® *Caladium*
13 Awards including: Top Performer, Biltmore; Top Performer In-Ground & Containers, Kansas State University; Silver Medal, University of Illinois

ARTFUL® HEARTFIRE® *Caladium*
6 Awards including: Top Performer In-Ground & Containers, Kansas State University; Top Performer, Longwood; Top Perfomer, Michigan State University

Jumbo size tubers – shipped in cases of 100 (2 bundles of 50 each)

Customers interested in #1 size tubers, please contact your propagator.

ARTFUL CALADIUMS OFFERED ONLY BY SOBKOWICH

Artful® tubers are very temperature sensitive. We will do everything possible to deliver them on time, but our supplier will only ship when temperatures are favorable. Regional shipping delays may occur January-late March. We recommend placing orders no later than January 15th to ensure availability.

ARTFUL® FIRE AND ICE® and ARTFUL® HEARTFIRE® *Caladium hortulanum* in the landscape.

Ring Around the Rosy
ARTFUL® FIRE AND ICE® *Caladium hortulanum*
DIAMOND DELIGHT® *Euphorbia*
SUPERTUNIA® Black Cherry *Petunia*

GROWING TIPS FOR ARTFUL®

- This plant is a tropical! Keep soil temperatures above 65° F for rapid shoot growth.
- 75-100 ppm N.
- Optimal temperatues for sprouting tubers are above 75° F.
- Must keep temperatures (soil and air) above 65° F to grow and finish – avoid chilling. Temperatures below 50° will cause stunting.
- Treat with preventive broad spectrum fungicidal drench one week after planting.
- De-eyeing and inverting the tuber are not necessary when planting these caladiums for a full container.
- Artful caladiums have been bred for high light gardening, however will work very well in shady conditions as well.
- In growing group BC (see page 253).

Additional Culture Information for ARTFUL®

pH/EC:	5.5 - 6.5/.6 - .9
Rooting Out Temperature:	70-85° F (21-29° C)
Growing Temperature:	65-72° F (18-22° C)
Holding Temperature:	65-72° F (18-22° C)
Water Requirements:	Moderate to Moist
Planting and Timing:	Late Spring to Summer Finish. Standard Plants per Container.
Finish Times in Weeks:	For 4-5", 8-10; for 6"/gallon, 9-11
Spring Outdoor Finish:	Do not finish outside until all danger of frost is past. Temperatures must be above 55° when moved outside

Notes:
If possible, use tempered water – above 50° F (typical ground water is 45° F).

Underbench heat will aid in keeping soil temperatures warm. Tent the growing bench to the ground to help channel all heat into growing containers. Hold soil temperature in upper 70s until multiple shoots emerge from tuber.

NEW

SUPERBELLS® Hollywood Star
Calibrachoa

SUPERBELLS® Coralina
Calibrachoa

SUPERBELLS® Grape Punch Improved
Calibrachoa

SUPERBELLS® Calibrachoa

6-12" Vigor: 3

SUPERBELLS® Coralina *Calibrachoa* 'INCALMIABE' USPPAF CanPBRAF
Expanding the color palette for Superbells, Coralina produces a cascade of coral pink blooms beginning in week 12. Screened for resistance to Thielaviopsis. New this year.

SUPERBELLS® Grape Punch Improved *Calibrachoa* 'JGCAL09404' USPPAF CanPBRAF
Features improved rooting and larger flowers in a deeper shade of true purple. Early to bloom in week 8. Screened for resistance to Thielaviopsis. New this year.

SUPERBELLS® Hollywood Star *Calibrachoa* 'BBCAL26702' USPPAF CanPBRAF
New addition to the Superbells Star line. Fuchsia pink flowers with a purple star pattern appear as early as week 7. Screened for resistance to Thielaviopsis. New this year.

SUPERBELLS® Morning Star *Calibrachoa* 'BBCAL27801' USPPAF CanPBRAF
New addition to the Superbells Star line. Blush pink flowers with a purple star pattern appear in week 7. Screened for resistance to Thielaviopsis. New this year.

SUPERBELLS® Yellow Improved
Calibrachoa

SUPERBELLS® Morning Star
Calibrachoa

SUPERBELLS® Red Improved
Calibrachoa

SUPERBELLS® Tropical Sunrise
Calibrachoa

SUPERBELLS® Red Improved *Calibrachoa* 'Incalimred' USPPAF CanPBRAF
True red flowers blanket the foliage in week 11, four weeks earlier than the original. Also exhibits better branching and impressive vigor in production. Screened for resistance to Thielaviopsis. New this year.

SUPERBELLS® Tropical Sunrise *Calibrachoa* 'Incaltrsun' USPPAF CanPBRAF
Replaces Tequila Sunrise. This striped beauty features loads of large flowers splashed with orange, pink and coral tones in week 11. Very stable. Screened for resistance to Thielaviopsis. New this year.

SUPERBELLS® Yellow Improved *Calibrachoa* '**' USPPAF CanPBRAF
Features greatly improved flower coverage due to tighter branching. Sunny yellow flowers blanket the foliage in week 11. Screened for resistance to Thielaviopsis. New this year.

SUPERBELLS® Calibrachoa

6-12" Vigor: 3

Often imitated. Never equaled.

With so many Calibrachoas on the market, how do you choose the best? At Proven Winners, we trial and select for varieties that perform all summer and deep into the fall months, long past when they leave the grower's bench. We want both growers and gardeners to be successful so they keep coming back for more.

Superbells are available in a broad array of superb colors and patterns with larger blooms that keep on coming all season due in part to greater thielaviopsis resistance. Some are compact and mounding while others cascade over the edges of hanging baskets and upright containers, creating an endless array of combination opportunities.

GROWING TIPS FOR SUPERBELLS®

- Treat with preventive broad spectrum fungicidal drench one week after transplant.
- It is strongly suggested that growers use caution when using Medallion due to potential leaf spotting on calibrachoas.
- Requires high light in production.
- 150-200 ppm fertilizer for optimal growth.
- Keep pH between 5.5 and 5.8.
- Yellow tips are often an indicator of high pH.
- Blue has a tendency to stretch under low light conditions.
- Cherry Star, Dreamsicle, Red, Sweet Tart, and Yellow Chiffon are quite responsive to PGRs, so care needs to be taken with use.
- Cold is a good natural growth regulator.
- More vigorous varieties like Lemon Slice, Pomegranate Punch may need additional early pinch or PGR treatment in low light environments.
- In growing group AA (see page 253).

Additional Culture Information for SUPERBELLS®

pH/EC:	5.5 - 5.8/.6-.9
Rooting Out Temperature:	65-72° F (18-22° C)
Growing Temperature:	55-65° F (12-18° C)
Holding Temperature:	40-50° F (4-10° C) outdoors
Water Requirements:	Moderate to Moist
Planting and Timing:	Early Spring through Fall Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12
Spring Outdoor Finish:	Second to go outside

Notes:
For all sizes of containers, pinch the liner 1–2 weeks after transplant; for containers larger than 6" and for hanging baskets, trim around the edge of the container as needed prior to spacing or hanging of the baskets. 5-10 ppm Sumagic® or a B-9/Cycocel (2500/750) tank mix is effective. Use 500 ppm Florel® on baskets and larger containers to promote branching. Calibrachoa are sensitive to pythium, phytopthera, and thielaviopsis, but Superbells have higher levels of tolerance to these diseases. Proper pH and good sanitation practices help alleviate problems. Increased air circulation, proper water management, and good soil porosity are also critical. Scout regularly for aphids, especially in baskets.

AWARD WINNER

SUPERBELLS® *Calibrachoa*

407 Awards including: Excellent Rating, Disney; Superior Rating, Penn State; Best of the Best, University of Georgia; Best Calibrachoa, Colorado State; Leader of the Pack, North Carolina State; Consumer Favorites, Cornell-Long Island; Top Performer, The Oregon Gardener

Superbells® Doubles

SUPERBELLS® Double Lavender
Calibrachoa 'USO8CJ1601' Can4589

SUPERBELLS® Double Plum
Calibrachoa 'USCACD6503' CanPBRAF

SUPERBELLS® Double Rose
Calibrachoa 'USO8CJ0202' Can4588

SUPERBELLS® Double Ruby
Calibrachoa 'USCAL83901' Can4591

SUPERBELLS® Double Salsa
Calibrachoa *** CanPBRAF

SUPERBELLS® Double Yellow
Calibrachoa 'USCAL840M2' CanPBRAF

Superbells®

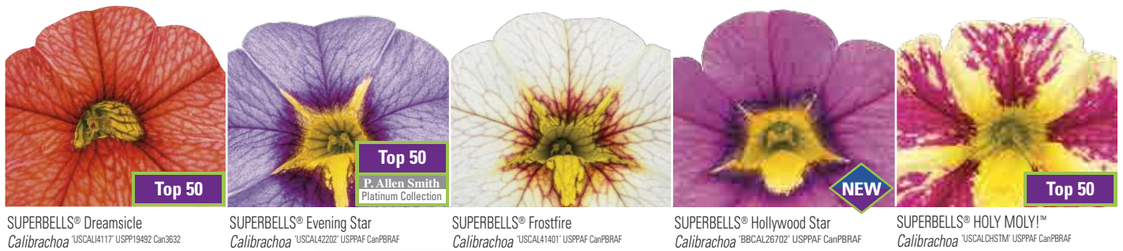
SUPERBELLS® Blue
Calibrachoa 'USCALI151' USPP14874 Can1931

SUPERBELLS® Cherry Blossom
Calibrachoa 'USCALI2121' USPP18421 Can3629

SUPERBELLS® Cherry Red
Calibrachoa 'USCAL23101' USPPAF CanPBRAF

SUPERBELLS® CHERRY STAR™
Calibrachoa 'USCALI91001' USPP23232 Can4594

SUPERBELLS® Coralina
Calibrachoa 'INCALMIABE' USPPAF CanPBRAF



SUPERBELLS® Dreamsicle
Calibrachoa 'USCALI4117' USPP19492 Can3632

SUPERBELLS® Evening Star
Calibrachoa 'USCAL42202' USPPAF CanPBRAF

SUPERBELLS® Frostfire
Calibrachoa 'USCAL41401' USPPAF CanPBRAF

SUPERBELLS® Hollywood Star
Calibrachoa 'BBCAL26702' USPPAF CanPBRAF

SUPERBELLS® HOLY MOLY!™
Calibrachoa 'USCALCHSTM' USPPAF CanPBRAF

SUPERBELLS® Lemon Slice
Calibrachoa 'USCAL87502' USPP24353 Can4917

SUPERBELLS® Miss Lilac
Calibrachoa 'USCAL87502' USPP23230 Can4593

SUPERBELLS® Morning Star
Calibrachoa 'BBCAL27801' USPPAF CanPBRAF

SUPERBELLS® Pink
Calibrachoa 'USCALI11' USPP14968 Can1927

SUPERBELLS® Plum
Calibrachoa 'USCALI413-8' USPP17679 Can2869

SUPERBELLS® Red Improved
Calibrachoa 'Incalimred' USPPAF CanPBRAF

SUPERBELLS® Saffron
Calibrachoa 'USCALI4134' USPP19493 Can3633

SUPERBELLS® Spicy
Calibrachoa 'USCAL09301' USPP25402 Can4916

SUPERBELLS® Sweet Tart
Calibrachoa 'CBRZ0003' USPP23322 Can4626

SUPERBELLS® Tropical Sunrise
Calibrachoa 'Incaltrsun' USPPAF CanPBRAF

Superbells® Punch

SUPERBELLS® White
Calibrachoa 'USCALI3862' USPP19734 Can3630

SUPERBELLS® Yellow Improved
Calibrachoa *** USPPAF CanPBRAF

SUPERBELLS® Yellow Chiffon
Calibrachoa 'USCALI4021' USPP19480 Can3631

SUPERBELLS® Apricot Punch
Calibrachoa 'USCALI4138' USPP19843 Can3634

SUPERBELLS® Blackberry Punch
Calibrachoa 'USCAL68604' USPP22964 Can4382

SUPERBELLS® Coralberry Punch
Calibrachoa 'USCAL66501' USPP22942 Can4381

SUPERBELLS® Grape Punch Improved
Calibrachoa 'JGCAL09404' USPPAF CanPBRAF

SUPERBELLS® Pomegranate Punch
Calibrachoa 'USCAL08501' USPP24503 Can4915

SUPERBELLS® Strawberry Punch
Calibrachoa 'USCAL58205' USPP22941 Can4590

SUPERBELLS® Punch Calibrachoa

6-10" Vigor: 2 except Pomegranate Punch – Vigor: 3

No other calibrachoa has the visual impact of our Superbells Punch varieties. The velvet black eye adds an element of tapestry and drama to the bloom and gets the attention of consumers. The Punch series has the same extraordinary performance and growth habit of all Superbells with a truly unique color.

Ever wonder what the top-selling Superbells are?

Here's the entire list in order by liner sales across all Canadian propagators.

Superbells® Lemon Slice
Superbells® Evening Star
Superbells® Pomegranate Punch
Superbells® Holy Moly!™
Superbells® Yellow
Superbells® White
Superbells® Cherry Star™
Superbells® Dreamsicle
Superbells® Red
Superbells® Grape Punch
Superbells® Yellow Chiffon
Superbells® Blue
Superbells® Pink
Superbells® Cherry Red
Superbells® Strawberry Punch
Superbells® Double Ruby
Superbells® Plum
Superbells® Coralberry Punch
Superbells® Apricot Punch
Superbells® Blackberry Punch
Superbells® Frostfire
Superbells® Saffron
Superbells® Cherry Blossom
Superbells® Garden Rose
Superbells® Sweet Tart
Superbells® Spicy
Superbells® Coralina
Superbells® Miss Lilac
Superbells® Double Plum
Superbells® Double Rose
Superbells® Double Lavender
Superbells® Double Salsa
Superbells® Tequila Sunrise (now Tropcial Sunrise)
Superbells® Double Yellow

Reduce pH in Hanging Baskets

Generally in cold, cloudy weather you want a Cal-Mag blend of fertilizer with high nitrate nitrogen, as this grows a better plant in winter conditions. Use a high ammonium nitrogen fertilizer to slowly lower media pH, but there is a catch. Under winter's low light and temperature conditions, high ammonium fertilizers can cause ammonium toxicity and cause the crop to grow too fast (meaning more PGRs will be required). Quick changes in pH usually cause additional problems. Other ways to reduce pH are to add more acid to your fertilizer injector and increase the overall acidity, but use care as you can also cause precipitation of some of the fertilizer elements if not handled properly.

Superbells Timing Chart

There is a 6-week variance from earliest-flowering to latest-flowering varieties.

Early-Flowering Varieties

Superbells® Apricot Punch
Superbells® Dreamsicle
Superbells® Hollywood Star
Superbells® Saffron
Superbells® Sweet Tart
Superbells® Cherry Star™
Superbells® Pomegranate Punch
Superbells® Morning Star
Superbells® Spicy
Superbells® Blackberry Punch
Superbells® Lemon Slice
Superbells® Miss Lilac
Superbells® Pink
Superbells® Yellow Chiffon

Mid-Flowering Varieties

Superbells® Evening Star
Superbells® Grape Punch Improved
Superbells® Holy Moly!™
Superbells® Plum
Superbells® Garden Rose
Superbells® Cherry Blossom
Superbells® Blue
Superbells® Yellow Improved
Superbells® White
Superbells® Coralberry Punch
Superbells® Frostfire
Superbells® Double Plum
Superbells® Double Ruby
Superbells® Double Lavender
Superbells® Double Rose
Superbells® Coralina
Superbells® Red Improved
Superbells® Cherry Red
Superbells® Tropical Sunrise

Later-Flowering Varieties

Superbells® Strawberry Punch
Superbells® Double Yellow
Superbells® Double Salsa

Contact your propagator to discuss options using "programmed liners" to shorten flowering times.

Easiest Superbells® to Grow

Propagators recommend the following Superbells varieties as easiest to grow in a 4.25 container:

Apricot Punch
Cherry Blossom
Cherry Red
Cherry Star™
Coralberry Punch
Pink
Red Improved
Sweet Tart
Tropical Sunrise
White
Yellow Improved

SUPERBELLS® Double Calibrachoa

6-10"

These double-flowering Superbells are Canadian exclusives. Not only do these beauties have the same growth habit and vigor that growers have come to appreciate from Superbells, but they add a unique flower form and vibrant color palette to the collection. Superbells are already a consumer favorite, and these six varieties double their popularity.

CANADIAN EXCLUSIVE

SUPERBELLS® Double Plum
Calibrachoa 'USCAC06503' CanPBRAF

SUPERBELLS® Double Lavender
Calibrachoa 'US08CJ1601' Can4589

SUPERBELLS® Double Ruby
Calibrachoa 'USCAL83901' Can4591

SUPERBELLS® Double Rose
Calibrachoa 'US08CJ0202' Can4588

SUPERBELLS® Double Salsa *Calibrachoa* '**' CanPBRAF

The beautiful reddish-orange hue of Double Salsa adds a spicy addition to this collection of double bloomers. This plant is great in 4.25 Grande™ containers and baskets as monos or in combination with other medium-vigor plants.

SUPERBELLS® Double Yellow *Calibrachoa* 'USCAL840M2' CanPBRAF

Double Yellow has twice the flower power in bright, buttery tones. With the exceptional disease resistance that all Superbells are known for, this plant is an outstanding garden performer.

SUPERBELLS® Grape Punch Improved *Calibrachoa*

Let's Go
SUPERBELLS® Grape Punch Improved *Calibrachoa*
SUPERBELLS® White *Calibrachoa*
SUPERBENA® Sparkling Amethyst *Verbena*

SUPERBELLS® Yellow Improved *Calibrachoa*

Joy
SUPERBELLS® Red Improved *Calibrachoa*
SUPERBELLS® Tropical Sunrise *Calibrachoa*
SUPERTUNIA® Honey *Verbena*

Treasured Moments
SUPERBELLS® Yellow Improved *Calibrachoa*
Sweet Caroline Bewitched GREEN WITH ENVY™ *Ipomoea batatas*
WHITE BUTTERFLY™ *Argyranthemum*

Among the Stars
SUPERBELLS® Grape Punch Improved *Calibrachoa*
Sweet Caroline Sweetheart JET BLACK™ *Ipomoea batatas*

Spitfire
SUPERBELLS® Morning Star *Calibrachoa*
DARK KNIGHT® *Lobularia*
GRACEFUL GRASSES® 'Sky Rocket' *Pennisetum*

Surprise
SUPERBELLS® Yellow Improved *Calibrachoa*
SUPERTUNIA® Daybreak Charm *Petunia*

SUPERBELLS® Garden Rose
Calibrachoa

LANDSCAPE 6-8" spread: 24-36" Vigor: 3

SUPERBELLS® Garden Rose *Calibrachoa* 'INTA06575' USPPAF CanPBRAF
This groundbreaking new Superbells is the first in a new line of Calibrachoa bred for landscape use, tolerating adverse soil conditions which are normally detrimental when planted in-ground. Quickly spreading to 2-3', it blooms through the heat and humidity of summer without deadheading. It fills out 4.25 Grande™ containers fully and works well in monoculture or combination containers with other high vigor varieties.

FLAMBÉ® Yellow Chrysocephalum apiculatum

LANDSCAPE 8-14" Vigor: 3

The unique blooms of this plant are truly enchanting, with small sprays of tiny spherical flower heads that appear in clusters in the spring and summer. An exceptionally adaptable plant, this sun lover has a spreading habit and is drought tolerant and easy to grow.

GROWING TIPS FOR FLAMBÉ®

- Requires high light in production.
- 150-200 ppm fertilizer for optimal growth.
- Pinch once, two weeks after liner planting May be cut back if desired.
- B-9 at 2500 ppm can help to control stretch under low light.
- In growing group BC (see page 253).

Additional Culture Information for FLAMBÉ®

pH/EC:	6.0 - 6.5/.6-.9
Rooting Out Temperature:	65-72° (18-22° C)
Growing Temperature:	65-72° (18-22° C)
Holding Temperature:	50-60° (10-16° C) outdoors
Water Requirements:	Dry to Moderate
Planting and Timing:	Spring through Fall Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 5-6; for 6"/gallon, 6-8; for 8", 8-10; for 10-12", 10-12
Spring Outdoor Finish:	Do not finish outside until all danger of frost is past

Notes:
Watch for aphids, leaf miners, and white flies. Can be susceptible to crown and stem rots if grown in cool, damp conditions. Maintain good air movement.

AWARD WINNER

FLAMBÉ® *Chrysocephalum*
29 Awards including: Excellent Rating, Massachusetts Horticultural Society; Excellent Rating, Boerner Botanical Garden, Milwaukee, Wisconsin; Best of Breed, North Carolina State

NEW

TOUCAN™ Red
Canna x generalis

TOUCAN™ Rose
Canna x generalis

TOUCAN™ Scarlet *Canna x generalis*

TOUCAN™ Yellow *Canna x generalis*

TOUCAN™ Canna x generalis

LANDSCAPE 30-48" spread: 18-24" Vigor: 4

Proven Winners is going tropical with a new line of Toucan™ Cannas. These new cannas are fast, vigorous, highly disease resistant and as easy to grow as petunias in greenhouse production. They are ideal for warm climates where they flower like crazy in the heat. Use Toucan cannas as bold-foliage, flowering thrillers in large containers and plant en masse in landscapes for a spectacular summer show. Sell early in 4.25 Grande™ containers and in 1.0 Royale™ or larger containers through summer. New this year.

TOUCAN™ Red *Canna x generalis*
Deep red-orange flowers with lush green foliage.

TOUCAN™ Rose *Canna x generalis*
Coral pink flowers with lush green foliage.

TOUCAN™ Scarlet *Canna x generalis*
Scarlet red flowers with bronze-green foliage.

TOUCAN™ Yellow *Canna x generalis*
Clear yellow flowers with lush green foliage.

GROWING TIPS FOR TOUCAN™

- Warmth and moisture are essential to growing high quality Cannas. Temperatures should not drop below 60-65° F; chilling injury may delay the crop.
- Do not use irrigation frequency to control plant size. Crop can be run slightly dry but drying to wilt stage will cause leaf burn and drop. Good water management practices are critical to healthy growth.
- To maximize growth, use a fertilizer with a complete micronutrient mix; these Cannas grow fast and use a lot of food. 200-300 ppm is the optimum rate.
- Watch for spider mites, especially if plants are not actively growing.
- Plants will normally flower in 7-10 weeks at optimal temperatures.

Additional Culture Information for TOUCAN™

pH/EC:	6.2-7.0 /1.0-2.0
Rooting Out Temperature:	75-85° F (24-30° C)
Growing Temperature:	75-85° F (24-30° C)
Holding Temperature:	65-72° F (18-22° C)
Water Requirements:	Moist
Planting and Timing:	Late Spring through Summer Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 6-8; for 6"/gallon, 6-8; for 8", 8-10; for 10-12", 10-12
Spring Outdoor Finish:	Do not move outside

Notes:
While the Toucan™ series can be grown in 4.5" and quart containers, we recommend the 1.0 Royale™ or 1 gallon size container as optimum for ease in production and sales. A drench of 1-4 ppm paclobutrazol can be used to help hold a crop or if control of growth is desired. Check manufacturers' labels for approved rates and usage recommendations.

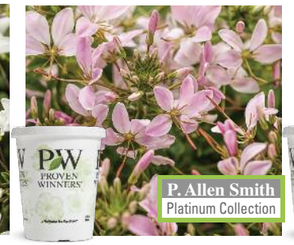
SEÑORITA ROSALITA® *Cleome* in the landscape

PEQUEÑA ROSALITA®
Cleome 'INCLENINRO' USPPAF CanPBRAF

18-36" Vigor: 4

SEÑORITA BLANCA®
Cleome 'INCLESBIMP' USPPAF CanPBRAF

24-48" Vigor: 3



SEÑORITA MI AMOR®
Cleome 'INCLESRCAR' USPPAF CanPBRAF

24-48" Vigor: 3

SEÑORITA ROSALITA®
Cleome 'Inncleosr' USPP19733 Can3290

24-48" Vigor: 4

Señorita and Pequeña Cleome

LANDSCAPE

Growers and gardeners have grown to love the Proven Winners line of thornless, seedless, odorless, non-sticky cleomes. They exhibit excellent heat, humidity and drought tolerance, bloom spring through fall and have minimal oedema issues. They are excellent spring extenders and are ideal for Southern markets. Grow in Royale™ containers for best display.

GROWING TIPS FOR CLEOME

- 200-300 ppm fertilizer for optimal growth.
- Take care not to overwater.
- Pinch once, two weeks after liner planting. A second pinch may be necessary for large containers.
- PGRs should not be necessary.
- These varieties should NOT have oedema problems.
- In growing group BB (see page 253).

Growers need to choose a Proven Package when ordering cleome.

When you order Señorita Rosalita, Señorita Blanca, Señorita Mi Amor and Pequeña Rosalita liners, you must order a white Proven Winners branded container for each plant in one of the available sizes. Orders for liners placed without orders for containers will not ship. Visit www.provenwinners.com for more information.

Proven Package Sizes: 4.50 Classic™, 4.25 Grande™, or 1.0 GL Royale™

Additional Culture Information for Cleome

pH/EC:	5.8 - 6.2/1.0-2.0
Rooting Out Temperature:	65-72° F (18-22° C)
Growing Temperature:	65-72° F (18-22° C)
Holding Temperature:	50-60° F (10-16° C) outdoors
Water Requirements:	Dry to Moderate
Planting and Timing:	Mid-Spring through Summer Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 5-6; for 6"/gallon, 6-8; for 8", 8-10; for 10-12", 10-12
Spring Outdoor Finish:	Do not finish outside until all danger of frost is past

Notes:
Treat with preventative broad spectrum fungicidal drench one week after transplant. Scout crops regularly (at least once a week) for disease development. Good air circulation, control of humidity, and good sanitation practices are critical. Good water management practices are critical to healthy plant growth.

AWARD WINNER

SEÑORITA AND PEQUEÑA *Cleome*
222 Awards including: Outstanding Rating, Disney Trials; Top Performer, Colorado State University; Top Performer, Michigan State University; Top Performer, Texas A&M; Top Performer, Oregon State University; Leader of the Pack, North Carolina State University

VERMILLIONAIRE®
Cuphea

VERMILLOINAIRE® Cuphea

LANDSCAPE 18-28" Vigor: 2

Vermillionaire is an absolute hummingbird magnet. It's extremely heat and humidity tolerant and is very low maintenance. A fast-growing Southern annual, yet it does well everywhere. Though it's drought tolerant, it can also tolerate higher moisture levels. Vermillionaire features a well-branched, mounding growth habit and produces deep-orange tubular flowers that cover the plant from spring through first frost. Although Vermillionaire is a cuphea, it's not prone to oedema.

AWARD WINNER

VERMILLIONAIRE® *Cuphea*
56 Awards including: Top Performer, Costa Farms; Top Performer, Biltmore; Top Performer and Consumer Top 3, Colorado State University; Top Performer, Ohio State University; Top Performer, Texas A&M

GROWING TIPS FOR VERMILLIONAIRE®

- 150-200 ppm N
- Drying out plant to wilt will cause leaf burn and leaf drop. Can be run a little dry but not to wilt.
- Watch for thrips, whiteflies and aphids.
- Treat with preventative broad spectrum fungicidal drench one week after transplant.
- In growing group CC (see page 253).

Additional Culture Information for Vermillionaire®

pH/EC:	6.0 - 6.5/.6-.9
Rooting Out Temperature:	65-72° F (18-22° C)
Growing Temperature:	70-75° F (21-24° C)
Holding Temperature:	50-60° F (10-15° C) outdoors
Water Requirements:	Moderate to Moist
Planting and Timing:	Late Spring through Summer Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 5-6; for 6"/gallon, 8-10; for 10-12", 10-12
Spring Outdoor Finish:	Last group to go outside

MYSTIC Illusion
Dahlia 'Knockout' USPP18839

MYSTIC Illusion Dahlia

LANDSCAPE 18-36" Vigor: 3

An absolute rock star in the landscape, clear lemon yellow, single blooms really pop against the dark foliage. The plants are resistant to powdery mildew, making them easier for growers to manage with fewer inputs. Mystic Illusion is suitable for 4.25" Grande™ and 1.0 Royale™ containers as well as combinations.

GROWING TIPS FOR MYSTIC ILLUSION

- Requires high light in production.
- 150-200ppm fertilizer for optimum growth.
- Plants are rarely affected by powdery mildew outdoors.
- Most Dahlias are long day plants. Provide long days or night interruption lighting to induce blooming if finishing before the first of April.
- Good water management practices are critical to healthy plant growth.
- Good air circulation, control of humidity, and good sanitation practices are critical.
- In growing group BB (see page 253).

Additional Culture Information for MYSTIC ILLUSION

pH/EC:	5.8 - 6.2/.8 - 1.2
Rooting Out Temperature:	65-72º (18-22º C)
Growing Temperature:	65-72º (18-22º C)
Holding Temperature:	50-60º (10-16º C)
Water Requirements:	Moderate to Moist
Planting and Timing:	Early Spring to Summer Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 5-6; for 6"/gallon, 6-8; for 8", 8-10; for 10-12", 10-12
Spring Outdoor Finish:	Do not move outside

Notes:
Do a soft pinch at 1-2 weeks after transplant if needed. Plants can be pinched to shape. Shearing growth tips encourages fuller growth. Hard pinches can stall growth. Treat with a preventative broad spectrum fungicidal drench at 1-2 weeks after transplant. Scout crops regularly (at least once a week) for disease development.

AWARD WINNER

MYSTIC Illusion *Dahlia*
35 Awards including: Best New Variety, Colorado State University; Hall of Fame, Cincinnati Zoo and Botanical Garden; Top Performer, Missouri Botanic Garden

DAHLIGHTFUL® Lively Lavender
Dahlia variabilis 'G13532' USPPAF CanPBRAF

DAHLIGHTFUL® Georgia Peach
Dahlia variabilis 'G13518' USPPAF CanPBRAF

DAHLIGHTFUL® Sultry Scarlet
Dahlia variabilis 'G13525' USPPAF CanPBRAF

DAHLIGHTFUL® Dahlia variabilis

LANDSCAPE 20-30" Vigor: 3

Gorgeous mid-sized Dahlias make their debut with the key improvement of being bred to minimize tuber production, resulting in more blooms and a longer sales window. Strong stems and good disease resistance are an added bonus. Excellent in combination containers and 1-gal Royale™ containers.

GROWING TIPS FOR DAHLIGHTFUL®

- Requires high light in production.
- 150-200ppm fertilizer for optimum growth.
- Plants are rarely affected by powdery mildew outdoors.
- Dahlightful® Dahlias will bloom under short days without the use of night interruption lighting.
- Good water management practices are critical to healthy plant growth.
- Good air circulation, control of humidity, and good sanitation practices are critical.
- In growing group BB (see page 253).

Additional Culture Information for DAHLIGHTFUL®

pH/EC:	5.8 - 6.2/.8 - 1.2
Rooting Out Temperature:	65-72º (18-22º C)
Growing Temperature:	65-72º (18-22º C)
Holding Temperature:	50-60º (10-16º C) outdoors
Water Requirements:	Moderate to Moist
Planting and Timing:	Early Spring to Summer Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 5-6; for 6"/gallon, 6-8; for 8", 8-10; for 10-12", 10-12
Spring Outdoor Finish:	Do not move outside

Notes:
Do a soft pinch at 1-2 weeks after transplant if needed. Plants can be pinched to shape. Shearing growth tips encourages fuller growth. Hard pinches can stall growth. Treat with a preventative broad spectrum fungicidal drench at 1-2 weeks after transplant. Scout crops regularly (at least once a week) for disease development.

AWARD WINNER

DAHLIGHTFUL® *Dahlia*
20 Awards including: Top Performer, Penn State; Top Performer, University of Georgia; Top Performer, University of Minnesota-Morris

FLIRTATION® Glacier White
Diascia '**' USPPAF CanPBRAF
Vigor: 2

Collection Top Seller

FLIRTATION® Orange
Diascia 'Diala Orange' US20905
Vigor: 3

FLIRTATION® Pink
Diascia 'Indiaimpab' USPP20886 Can3863
Vigor: 3

FLYING COLORS® Red
Diascia 'Diastured' Can2773
Vigor: 2

FLIRTATION® and FLYING COLORS® Diascia

10-14"

Excellent for early season production and use as winter flowering annuals in Sunbelt states, the Flirtation and Flying Colors Diascias are exceptional performers. Their vibrantly colored flowers, sturdy stems and semi-trailing habit make them excellent components for filling combination baskets, containers, and window boxes. Flying Colors Diascia is especially early blooming and compact.

AWARD WINNERS

FLIRTATION® and FLYING COLORS® ***Diascia***
29 Awards including: Excellent Rating, Boerner Botanical Garden, Milwaukee, Wisconsin; Outstanding Rating, Disney Trials; Top Performer, Michigan State; Best Overall, Oregon State University

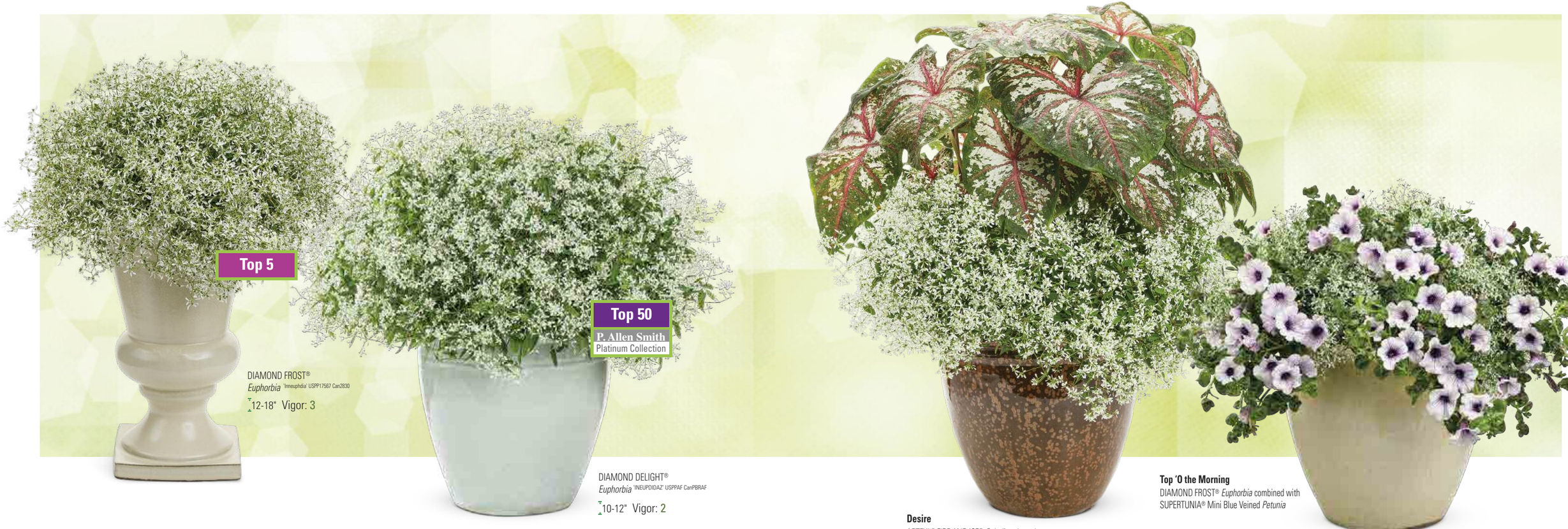
GROWING TIPS FOR DIASCIA

- Preventive fungicides are recommended at transplant.
- Grow cool with good air circulation once established.
- Requires high light in production.
- 200 ppm fertilizer for optimal growth.
- Flying Colors Red has greater heat tolerance.
- Be careful to not overwater and use a well-drained media.
- In growing group AB (see page 253).

Additional Culture Information for Diascia

pH/EC:	5.8 - 6.2/.6-.9
Rooting Out Temperature:	65-72° F (18-22° C)
Growing Temperature:	55-65° F (12-18° C)
Holding Temperature:	40-50° F (4-10° C) outdoors
Water Requirements:	Moderate to Moist
Planting and Timing:	Early Spring through Fall Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12
Spring Outdoor Finish:	Second to go outside

Notes:
For all sizes of containers, pinch the liner 1-2 weeks after transplant; for containers larger than 6" and for hanging baskets, trim around the edge of the container as needed prior to spacing or hanging of the baskets. Winter flowering occurs in Sunbelt states.



DIAMOND FROST®
Euphorbia 'Inneuphdia' USPP17567 Can2830
12-18" Vigor: 3

DIAMOND DELIGHT®
Euphorbia 'INEUPDIDAZ' USPPAF CanPBRAF
10-12" Vigor: 2

Desire
ARTFUL® FIRE AND ICE® *Caladium hortulanum*
underplanted with DIAMOND DELIGHT® *Euphorbia*

Top 'O the Morning
DIAMOND FROST® *Euphorbia* combined with
SUPERTUNIA® Mini Blue Veined *Petunia*

DIAMOND FROST® and DIAMOND DELIGHT® Euphorbia

LANDSCAPE

Among the most versatile annuals in our lineup, Diamond Frost and Diamond Delight Euphorbias are a snap to match with a myriad of other plants in combinations. Blooming all season on exceptionally drought and heat tolerant plants, they provide a refined texture for elegant combinations. Yet their roles in combinations couldn't be more different. Read on to find out how.

DIAMOND DELIGHT® *Euphorbia* 'INEUPDIDAZ' USPPAF CanPBRAF
Diamond Delight™ is the most vigorous double-flowering euphorbia graminea on the market. With its extra set of petals the flowers exhibit more color! Diamond Delight is well branched with a tight growth habit and is extremely tolerant of heat, humidity, and drought. Diamond Delight is 25% shorter than Diamond Frost®.

DIAMOND FROST® *Euphorbia* 'Inneuphdia' USPP17567 Can2830
Diamond Frost is like your friend who gets along with everyone she meets – it combines easily with many kinds of plants, weaving its wiry stems in and out, poking its single, airy white flowers throughout the combination. Often imitated but never equaled!

GROWING TIPS FOR DIAMOND FROST® and DIAMOND DELIGHT®

- High light is required in production.
- 150-200 ppm fertilizer for optimal growth.
- Preventive fungicides are recommended 1 week after transplant.
- Warm and slightly dry conditions after transplanting speeds root-in and growth.
- Can have an adverse reaction to shipping in a box, but even plants that look bad will rebound in a short time.
- Severe dry down can cause foliage to drop; however, the plant will recover.
- Benefits from a light shearing 2-3 weeks after transplanting.
- In growing group BB (see page 253).

AWARD WINNERS

DIAMOND FROST® *Euphorbia*
146 Awards including: Rising Star, Dallas Arboretum; Best of the Best, University of Georgia; Superior Rating, Colorado State; Top Performer, Ohio State

DIAMOND DELIGHT® *Euphorbia*
33 Awards including: Top Performer In-Ground and Containers, Kansas State University; Top Performer, Michigan State University; Top Performer, Oregon State University; Top Performer, University of Tennessee-Knoxville

Additional Culture Information for DIAMOND FROST® and DIAMOND DELIGHT®

pH/EC:	5.8 - 6.2/.6-.9
Rooting Out Temperature:	65-72° F (18-22° C)
Growing Temperature:	65-72° F (18-22° C)
Holding Temperature:	50-60° F (10-16° C) outdoors
Water Requirements:	Moderate to Moist
Planting and Timing:	Early Spring through Summer Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12
Spring Outdoor Finish:	Do not finish outside until all danger of frost is past

Notes:
No pinch necessary, but plants can be pinched to shape. Winter flowering occurs in Sunbelt states. Very sensitive to Florel®.

BLUE MY MIND® Evolvulus

6-12" Vigor: 2

The hotter the better for this stunning deep-sky-blue bloomer. Its drought, heat, and humidity tolerance makes it an excellent choice for southern growers. Because it also needs to be protected from even a light frost, northern growers should use care and not order in too early. Better branched, larger flowered, and more impactful than 'Blue Daze', Blue My Mind is great in 4.25 Grande™ and 1.0 Royale™ containers as well as hanging baskets.

GROWING TIPS FOR BLUE MY MIND®

- This is a HOT season crop. When night temperatures are below 65° F (18° C), the plant's growth drops off. Also low light levels severely weaken the growth, so plan to order when you can meet or exceed these conditions.
- Reduce your fertility to 50-75 ppm to avoid high EC levels. This is a tough, durable, drought-tolerant plant that requires heat.
- Needs to be protected from even a light frost.
- While the plants can withstand drought conditions, growth and flowering are better with consistent moisture.
- In growing group CC (see page 253).

Additional Culture Information for BLUE MY MIND®

pH/EC:	6 - 6.5/< .6
Rooting Out Temperature:	65-72° F (18-22° C)
Growing Temperature:	70-75° F (21-24° C)
Holding Temperature:	50-60° F (10-16° C) outdoors
Water Requirements:	Dry to Moderate
Planting and Timing:	Spring through Summer Finish. Standard Plants Per Container.
Finish Time in Weeks:	For 4-5", 6-8; for 6", 10-12; for 8" 10-12; for 10-12", 12-14
Spring Outdoor Finish:	Last to go outside

Notes:
Pinch twice; once two weeks after liner planting and then 5 weeks later. PGRs are not necessary.

AWARD WINNER

BLUE MY MIND® *Evolvulus*
55 Awards including: Top Performer, Texas A & M; Best of Show, University of Wisconsin; Top Performer, Massachusetts Horticulture Society at Elm Banks; Top Performer In-Ground and Containers, Kansas State University

STRATOSPHERE™ and KARALEE® Gaura

LANDSCAPE 12-24" Zones 6-11 Vigor: 2

Lovely in landscapes or as thrillers in combination containers, gauras add height, wispy texture, and movement to the design. Their graceful stems bear non-stop blooms through the heat of summer.

GROWING TIPS FOR GAURA

- Requires high light in production.
- 200 ppm fertilizer for optimal growth.
- In response to cool temperatures, spots can appear on gaura foliage during normal production. This is a physiological response – not a viral infection.
- In growing group AB (see page 253).

AWARD WINNERS

KARALEE® Petite Pink and STRATOSPHERE™ *Gaura*
5 Awards including: Top Performer, Penn State; Arboretum Approved, Dallas Arboretum

Additional Culture Information for KARALEE® Petite Pink and STRATOSPHERE™

pH/EC:	5.8 - 6.2/.6 -.9
Rooting Out Temperature:	65-72° F (18-22° C)
Growing Temperature:	55-65° F (12-18° C)
Holding Temperature:	40-50° F (4-10° C) outdoors
Water Requirements:	Moderate to Moist
Planting and Timing:	Early Spring through Fall Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 6-8; for 6"/gallon, 7-10; for 8", 8-11; for 10-12", 12-14
Spring Outdoor Finish:	First to go outside

Notes:
Pinch once, two weeks after liner planting. Growth regulation not needed. Winter flowering occurs in Sunbelt states.

HELLO!™ Pumpkin
Gerbera

HELLO!™ Magentamen
Gerbera

HELLO!™ Miss Scarlet
Gerbera

HELLO!™ Sunshine
Gerbera

HELLO!™ Gerbera Daisies

LANDSCAPE 12-20" Vigor: 2

Meet the latest in vegetative Gerberas for the landscape. Through one of the most extensive trials we've conducted, they have proven to be more vigorous and floriferous than average. Though their 4" flowers are a bit smaller than seed Gerberas, more are produced over a longer period. To help educate and inspire consumers, Hello! Gerbera Daisies are offered exclusively with the Proven Package.

Growers need to choose from these Proven Packages when ordering Hello!™ Gerbera.

When you order these liners, you must choose one of the following two options:

1. Order the Hello! Proven Winners branded container for each liner in the Royale size.
2. Order a Hello! Gerbera hanging basket tag.

Orders for liners placed without orders for container/tag will not ship. Visit www.provenwinners.com for more information.

1. Hello! Proven Package 1.0 GL Royale™ **2.** Hanging basket/stake tags

HELLO!™ Miss Scarlet
Gerbera

HELLO!™ Magentamen
Gerbera

HELLO!™ Sunshine
Gerbera

HELLO!™ Pumpkin
Gerbera

GROWING TIPS FOR HELLO!™ GERBERA

- Best flowering and plant quality is achieved under full sun conditions. Space plants well so plenty of light reaches the crown to promote flowering.
- Plants will finish with more blooms and be more robust if given a cool finish.
- 100-200 ppm fertilizer for optimum growth.
- Gerbera will reduce flowering if allowed to become rootbound or starved for fertilizer. Watch the pH constantly to maintain optimal levels.
- In growing group BB (see page 253).

AWARD WINNERS

HELLO!™ *Gerbera*

58 Awards including: Leader of the Pack, North Carolina State University; Top Performer, Texas A&M; Top Performer, Oregon State University

Additional Culture Information for Hello!™ Gerbera

pH/EC:	5.5 - 6.2/.6 - .9
Rooting Out Temperature:	65-72° F (18-22° C)
Growing Temperature:	65-72° F (18-22° C)
Holding Temperature:	45-50° F (7-10° C) outdoors
Water Requirements:	Moderate to Moist
Planting and Timing:	Spring to Summer Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", not recommended; for 6"/gallon, 8-12; for 8", 10-12; for 10-12", 10-14
Spring Outdoor Finish:	Second to go outside

Notes:

Plant the liner with the crown of the Gerbera slightly higher than the existing soil level. This is recommended so that the growing point of the plant stays above the soil line. Pinching is not recommended. Treat with a preventative broad spectrum fungicidal drench at 1-2 weeks after transplant. Do not allow plants to dry to wilt stage. Dry-down will result in increased susceptibility to disease. Spider mites and thrips as well as root rot (phytophthora) are the primary concerns. Scout aggressively and treat for thrips.

GRACEFUL GRASSES® BABY TUT®
Cyperus involucratus

LANDSCAPE 18-24" Vigor: 3

In growing group BC (see page 253).

GRACEFUL GRASSES®
KING TUT® *Cyperus papyrus*

LANDSCAPE 48-72" Vigor: 4

In growing group BC (see page 253).

GRACEFUL GRASSES®
PRINCE TUT™ *Cyperus papyrus*

LANDSCAPE 30-48" Vigor: 4

In growing group BC (see page 253).

GRACEFUL GRASSES® Toffee Twist
Carex flagellifera

LANDSCAPE 18-24" Vigor: 2

In growing group BB (see page 253).

GRACEFUL GRASSES®
Fiber Optic Grass *Scirpus cernuus*

10-14" Vigor: 2

In growing group CB (see page 253).

GRACEFUL GRASSES®
BLUE MOHAWK® *Juncus inflexus*

LANDSCAPE 24-36" Vigor: 2

In growing group BB (see page 253).

Annual GRACEFUL GRASSES®

Our Graceful Grasses® Collection has earned the praise of consumers because these plants are easy to grow and add height, texture, and color to the landscape and containers. Industry experts are fans as well, with the eleven plants in the Collection continuing to pick up awards for performance and beauty.

GRACEFUL GRASSES® PRINCE TUT™ *Cyperus papyrus*

Measuring about half the height of King Tut, Prince Tut™ is ideal for large combination containers and moist spots in the landscape. It grows quickly to form an impressive clump and is more floriferous than King Tut, producing similar finely textured plumes. This heat tolerant plant grows well from north to south. Best in 4.25 Grande™ and 1.0 Royale™ containers. New this year.

CULTURE INFORMATION FOR GRACEFUL GRASSES®

For cultural information on each of the Graceful Grasses, go to www.provenwinners.com, click on Professionals, then under the Growers section click Culture Search. There, you can search for specific culture information on Graceful Grasses.

AWARD WINNER
GRACEFUL GRASSES®
374 Awards including: Excellent Rating, Massachusetts Horticultural Society; Leader of the Pack, North Carolina State; Top Performer, Michigan State; Top Performer, Texas A&M; Top Performer, Colorado State University

GRACEFUL GRASSES®
'Sky Rocket' *Pennisetum* USPP21497

LANDSCAPE 24-30" Vigor: 3

In growing group CB (see page 253).

GRACEFUL GRASSES® Purple Fountain Grass
Pennisetum setaceum

LANDSCAPE 30-36" Vigor: 3

In growing group CB (see page 253).

Annual GRACEFUL GRASSES®

1.0 Quart and 4.25 Grande™ Specialty Containers for Graceful Grasses®

Gardeners are looking for our Graceful Grasses Collection, and our optional specialty containers make it easy for customers to find them. Plus, when you use these specialty containers, you have the option of charging a different price for Graceful Grasses than for annuals. The unique UPC code on these containers is also beneficial for scanning purposes. Both sizes are available as a special order with a 25,000 minimum.

Specialty – Graceful Grasses®
1.0 Quart container

GRACEFUL GRASSES®
VERTIGO® *Pennisetum purpureum* 'Tift 8' USPP22254

LANDSCAPE 36-48" Vigor: 4

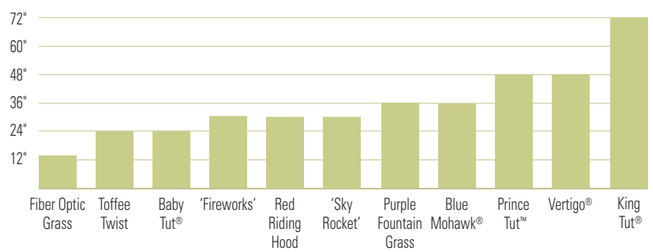
In growing group BB (see page 253).

GRACEFUL GRASSES®
'Fireworks' *Pennisetum* 'Rubrum' USPP18504

LANDSCAPE 24-30" Vigor: 3

In growing group CB (see page 253).

Graceful Grasses by mature height



GRACEFUL GRASSES® Red Riding Hood *Pennisetum*

LANDSCAPE 18-30" Vigor: 3

In growing group CB (see page 253).

ROCKAPULCO® Purple *Impatiens walleriana* 'Balfiepurp' USPP18867 Can3361
Vigor: 2

ROCKAPULCO® Coral Reef *Impatiens walleriana* 'Balcoree' USPP22992 CanPBRAF
Vigor: 3

ROCKAPULCO® Wisteria *Impatiens walleriana* '**' USPPAF CanPBRAF
Vigor: 3

ROCKAPULCO® Orchid *Impatiens walleriana* 'Lavendar Orchid' USPP9615
Vigor: 2

ROCKAPULCO® Impatiens walleriana

10-16"

Rockapulco varieties feature unbeatable performance, plus the biggest, brightest, and most abundant flowers you'll find in double impatiens. Rockapulco varieties have excellent branching, uniformity, and a full range of color options, making them an ideal choice for premium containers.

AWARD WINNER

ROCKAPULCO® ***Impatiens***
83 Awards including: Leader of the Pack, North Carolina State; Prairie Star, Kansas State; Top Performer, Smithsonian

GROWING TIPS FOR ROCKAPULCO®

- 100-150 ppm fertilizer for optimal growth.
- Requires moderate light intensity for optimal growth. Reduce light intensity when temperatures are high to prevent flower and leaf burning as well as bud drop.
- Apply Bonzi® (3-10 ppm) once or twice to control growth. Higher rates may be necessary in Southern production areas.
- Moderate drying of media will enhance flowering and control stretch. Too much drying can cause leaf scorch under high light.
- Leach periodically to keep salt levels in container low.
- In growing group BB (see page 253).

ROCKAPULCO® Appleblossom *Impatiens walleriana* 'Balfieplos' USPP13637 Can1520
Vigor: 2

ROCKAPULCO® Red *Impatiens walleriana* 'Balfiedaled' USPP16626 Can2549
Vigor: 2

ROCKAPULCO® Dark Orange *Impatiens walleriana* 'Balfiedeor' USPP13643 Can1519
Vigor: 2

ROCKAPULCO® Rose *Impatiens walleriana* 'Balolestop' USPP13639 Can1525
Vigor: 2

ROCKAPULCO® White *Impatiens walleriana* 'BFP-7812' USPP11365 Can0643
Vigor: 2

Additional Culture Information for ROCKAPULCO®

pH/EC:	5.8 - 6.2/.75 -.80
Rooting Out Temperature:	68-74° F (19-23° C)
Growing Temperature:	65-75° F (18-24° C)
Holding Temperature:	50-60° F (10-16° C)
Water Requirements:	Moderate to Moist
Planting and Timing:	Early Spring through Fall Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 6-9; for 6"/gallon, 7-9; for 8", 7-9; for 10-12", 10-12
Spring Outdoor Finish:	Do not finish outside

Notes:
No pinching needed. Watch for thrips.

NEW

Sweet Caroline Sweetheart Lime *Ipomoea batatas* with SUPERTUNIA® PRETTY MUCH PICASSO® *Petunia* and SNOW PRINCESS® *Lobularia*

ILLUSION® and SWEET CAROLINE

Ipomoea batatas

The sweet potato vine has become a gardener's favorite because of the variety it adds in color and form. Proven Winners offers two exceptional collections of sweet potato vines: Illusion, which we introduced in 2010, and Sweet Caroline, a long-time consumer favorite in three different series that now have the power of the Proven Winners brand behind them.

ILLUSION® *Ipomoea batatas* LANDSCAPE 6-10" Vigor: 3

The texture of Illusion is unique in the industry, with very compact, dense, lacy, dissected foliage. Plus, its controlled growth habit means it won't overpower the garden. Illusions are ideal for small container production, summer gallons, and mixed containers. They are showy plants that will behave themselves on the retail bench.

Sweet Caroline *Ipomoea batatas* LANDSCAPE 6-16" Vigor: 3

The popular Sweet Caroline sweet potato vines are all heat and humidity tolerant and grow vigorously across the U.S. and Canada, although the farther south you go, the faster they grow. The Sweet Caroline series is the least compact but has the widest color palette and finger-shaped leaves.

Sweet Caroline Bewitched AFTER MIDNIGHT™ *Ipomoea batatas* '**' USPPAF CanPBRAF 10-16"

Replaces Bewitched. Similar foliage but more relaxed habit; easier to use in combinations. Matched to Bewitched Green with Envy. New this year.

Sweet Caroline Bewitched GREEN WITH ENVY™ *Ipomoea batatas* '**' USPPAF CanPBRAF 10-16"

Matched to Bewitched After Midnight, this selection features a similar habit and leaf shape in bright lime green. New this year.

Sweet Caroline Sweetheart JET BLACK™ *Ipomoea batatas* '**' USPPAF CanPBRAF 8-12"

Replaces Sweetheart Purple. Supersaturated purple, heart-shaped leaves retain their color in the heat and full sun. Matched to Sweetheart Lime. New this year.

Sweet Caroline Raven *Ipomoea batatas* with COLORBLAZE® Coleus in the background.

GROWING TIPS FOR ILLUSION® AND SWEET CAROLINE

- 150-200 ppm fertilizer for optimal growth.
- Keep air circulation up and foliage dry. Prolonged wet foliage may lead to bacterial leaf spotting.
- Use 2500 ppm of B-9 to maintain shape on 4.5".
- This crop loves the heat and humidity, for the fastest crops keep production temperatures over 70° F and keep fertility levels fairly high.
- In growing group CC (see page 253).

AWARD WINNERS

ILLUSION® *Ipomoea batatas*

159 Awards including: Top Performer, Oklahoma State; Leader of the Pack, North Carolina State; Outstanding Rating, Disney Trials

SWEET CAROLINE *Ipomoea batatas*

226 Awards including: Leader of the Pack, North Carolina State; Prairie Star, Kansas State; Best Varieties, Penn State

Additional Culture Information for ILLUSION® and Sweet Caroline

pH/EC:	6.0 - 6.5/.6-.9
Rooting Out Temperature:	65-72° F (18-22° C)
Growing Temperature:	70-75° F (21-24° C)
Holding Temperature:	50-60° F (10-16° C) outdoors
Water Requirements:	Moderate to Moist
Planting and Timing:	Spring through Summer Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 5-6; for 6"/gallon, 6-8; for 8", 8-10; for 10-12", 10-12
Spring Outdoor Finish:	Do not finish outside until all danger of frost is past

Notes:
For Illusions, no pinch is necessary. For Sweet Caroline varieties, pinch once, 2 weeks after liner planting. PGRs are not necessary.

NEW

Top 50

ILLUSION® Emerald Lace
Ipomoea batatas 'NCORNSP012EMLC' USPP21744 Can4162

ILLUSION® Midnight Lace
Ipomoea batatas 'NCORNSP011MNLC' USPP21743 Can4161

ILLUSION® Garnet Lace
Ipomoea batatas 'NCORNSP013GNLC' USPPAF Can4537

NEW

Sweet Caroline Bewitched
AFTER MIDNIGHT™
Ipomoea batatas '**' USPPAF CanPBRAF

NEW

Sweet Caroline Bewitched
GREEN WITH ENVY™
Ipomoea batatas '**' USPPAF CanPBRAF

Top 50
P. Allen Smith
Platinum Collection

NEW

Sweet Caroline
Sweetheart JET BLACK™
Ipomoea batatas '**' USPPAF CanPBRAF

Sweet Caroline Sweetheart Lime
Ipomoea batatas 'NCORNSP-019SCSHLM' USPPAF CanPBRAF

Top 50

Sweet Caroline Raven
Ipomoea batatas 'NCORNSP015SCPI' USPPAF Can4539

'Sweet Caroline Red'
Ipomoea batatas USPP17483 Can2976

'Sweet Caroline Bronze'
Ipomoea batatas USPP15437 Can2973

Top 50
P. Allen Smith
Platinum Collection

'Sweet Caroline Light Green'
Ipomoea batatas USPP15028 Can2975

'Sweet Caroline Sweetheart Red'
Ipomoea batatas USPP19013 Can2904

Proven Winners Ipomoea Comparison Chart

Series name	Variety names	Distinguishing characteristics	Breeding goal	Colors in line	Compact habit – relative to others	Branching relative to others	Flowering	Leaf type	PGR require-ments
Illusion®	Emerald Lace Garnet Lace Midnight Lace	Dissected foliage for new texture; compact habit	Same as Sweet Carolines	Light green, purple, red, or bronze	Compact habit	High	No – rarely, when under stress	Dissected	Usually not needed
Sweet Caroline Bewitched	Bewitched After Midnight Bewitched Green with Envy	Compact mounding but not trailing habit; more upright initially; serrated leaf margin	Mounding habit with serrated leaf	Light green, purple-black	Compact habit	Medium to high	Occasionally under short days, low light	Serrated margin	Not needed
Sweet Caroline Sweetheart	Jet Black Lime Red	Enhanced branching over Sweet Caroline series; different texture with heart-shaped leaves	Same as Sweet Carolines	Light green, purple, red	Moderately compact habit	Medium	No	Entire, cordate	May be needed for holding plants and small container sizes
Sweet Caroline	Bronze Light Green Raven Red	Enhanced branching and reduced stem elongation over free varieties	Bred for reduced internode size, better branching and reduced storage root formation; novel colors	Dark green, light green, variegated dark green, purple, bronze, red	Trailing habit	Medium	No. Bronze, Purple, and occasionally Red when under stress	Deeply lobed	May be needed for holding plants and small container sizes

NEW

Top 50

ILLUSION® Midnight Lace
Ipomoea batatas 'NCORNSP011MNLC' USPP21743 Can4161

ILLUSION® Emerald Lace
Ipomoea batatas 'NCORNSP012EMLC' USPP21744 Can4162

ILLUSION® Garnet Lace
Ipomoea batatas 'NCORNSP013GNLC' USPPAF Can4537

Top 50

Top 50
P. Allen Smith
Platinum Collection

'Sweet Caroline Light Green'
Ipomoea batatas USPP15028 Can2975

Sweet Caroline Raven
Ipomoea batatas 'NCORNSP015SCP' USPPAF Can4539

'Sweet Caroline Sweetheart Red'
Ipomoea batatas USPP19013 Can2904

ILLUSION® and SWEET CAROLINE Ipomoea batatas

Illusion® and Sweet Caroline: Vigor: 3

'Sweet Caroline Bronze'
Ipomoea batatas USPP15437 Can2973

Top 50
P. Allen Smith
Platinum Collection

NEW

Sweet Caroline
Sweetheart JET BLACK™
Ipomoea batatas '**' USPPAF CanPBRAF

NEW

Sweet Caroline Bewitched AFTER MIDNIGHT™
Ipomoea batatas '**' USPPAF CanPBRAF

NEW

Sweet Caroline Bewitched
GREEN WITH ENVY™
Ipomoea batatas '**' USPPAF CanPBRAF

Sweet Caroline Sweetheart Lime
Ipomoea batatas 'NCORNSP-019SCSHLM' USPPAF CanPBRAF

'Sweet Caroline Red'
Ipomoea batatas USPP17483 Can2976

BETH'S BLUE® Isotoma

LANDSCAPE 12-14" Vigor: 2

This outstanding heat tolerant annual has long been popular for its unique star-shaped, blue lavender flowers and its interesting texture for containers and landscapes. Once vernalized, it puts on an airy show of blooms all season until frost. Perfect for early season color offered with Anytime® Pansiolas.

GROWING TIPS FOR BETH'S BLUE®

- Flowers heaviest when grown cool (45-55°F). Growing cooler will bulk up the plants and increase flower formation, however it will also increase production time.

Liners must be vernalized for optimal spring production.

- Great for growing in cold greenhouses where blooming begins to peak when temperatures warm up.
- Display or sell in cool greenhouse areas or grow outside if possible. A great companion to other cool season crops like Anytime® pansiolas.
- 150-200ppm fertilizer for optimum growth.
- In growing group AB (see page 253).

Additional Culture Information for BETH'S BLUE®

pH/EC:	5.8 - 6.2/.6 - .9
Rooting Out Temperature:	65-72° F (18-22° C)
Growing Temperature:	50-65° F (10-18° C)
Holding Temperature:	40-50° F (4-10° C)
Water Requirements:	Moderate to Moist
Planting and Timing:	Early Spring through Fall Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 5-6; for 6"/gallon, 8-9; for 8", 9-10; for 10-12", 10-12
Spring Outdoor Finish:	First to go outside

Note:
Pinching is not necessary. Treat with a preventative broad spectrum fungicidal drench at 1-2 weeks after transplant. Scout crops regularly (at least once a week) for disease development. Water early in the day so foliage is dry by nightfall to decrease likelihood of disease.

AWARD WINNER

BETH'S BLUE® *Isotoma*
18 Awards including: Best Performer, Dallas Arboretum; Best of Breed, JC Raulston Arboretum

NEW

PINK CHABLIS® *Lamium maculatum* 'Check In' USPP17925

PURPLE CHABLIS™ *Lamium maculatum* '**' USPPAF CanPBRAF

CHABLIS Lamium maculatum

LANDSCAPE 8-12" Zones 4-8 Vigor: 3

Chablis Lamium provides plenty of color and texture in areas of shade and sun. Apple green leaves with a dense silver overlay provide a stunning backdrop for the colorful blossoms.

PURPLE CHABLIS™ *Lamium maculatum* '**' USPPAF CanPBRAF
Silvery leaves dotted with bright purple flowers are the signature of this beautiful trailing plant. Easily adaptable for containers and landscapes, it makes a versatile component plant in combinations, its cool foliage acting as the perfect foil for flowering annuals. New this year.

AWARD WINNER

PINK CHABLIS® *Lamium*
6 Awards including: Top Pick, Dallas Arboretum; Top Performer-Perennial, Colorado State University; Knock Your Socks Off, University of Georgia; Top Performer, University Laval

GROWING TIPS FOR CHABLIS

- Can be produced under high or low light levels.
- No pinching or growth regulator needed.
- 150-200 ppm fertilizer for optimal growth.
- Leaf purpling can occur when grown in low-fertility situations or cold temperatures.
- Very tolerant of cool temperatures; can be moved outdoors once temps are above 28° F (-2° C).
- All Lamiums are susceptible to Downy Mildew, scout crops regularly.
- In growing group AC (see page 253).

Additional Culture Information for CHABLIS *Lamium*

pH/EC:	6.0 - 6.5/.6-.9
Rooting Out Temperature:	65-72° F (18-22° C)
Growing Temperature:	55-65° F (12-18° C)
Holding Temperature:	40-50° F (4-10° C) outdoors
Water Requirements:	Moderate to Moist
Planting and Timing:	Early Spring through Fall Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12
Spring Outdoor Finish:	First to go outside

Notes: Winter flowering occurs in Sunbelt states.No pinching or growth regulator needed.

LUSCIOUS® Marmalade
Lantana camara 'G12-166' USPPAF CanPBRAF

LUSCIOUS® Bananarama
Lantana camara 'G12-164' USPPAF CanPBRAF

LUSCIOUS® Pinkberry Blend
Lantana camara '**' USPPAF CanPBRAF

LUSCIOUS® Piña Colada
Lantana camara 'LANZ0004' USPPAF Can4647

LUSCIOUS® BERRY BLEND™
Lantana camara 'LAN 876' USPP23919 Can4905

LUSCIOUS® CITRUS BLEND™
Lantana camara '2003.301' USPP19706

LUSCIOUS® Grape
Lantana camara 'Robpwpur' USPP13357 Can3637

LUSCIOUS® Lemonade
Lantana camara 'Robpwcrm' USPP19347 Can3636

LUSCIOUS® Lantana camara

LANDSCAPE

This collection adds vibrancy, flower power, and exceptional performance to the continuous blooming that lantanas are known for. These impressive plants will win you over with their bright colors and heat and drought tolerance. These exceptionally vigorous growers are butterfly and hummingbird magnets and require no deadheading. Day-length neutral.

GROWING TIPS FOR LUSCIOUS®

- 200 ppm fertilizer for optimal growth.
- High light in production is essential.
- Warm and slightly dry conditions after transplanting speeds root in and growth.
- Use caution with Florel®, as it can cause leaf drop and leaf curl.
- For best results, northern growers may want to order first shipments in mid-spring when temperatures and light levels rise. Cold and wet conditions can double crop time.
- In growing group CB (see page 253).

Additional Notes for LUSCIOUS® Grape *Lantana*

Luscious Grape is a true trailing variety. This may require an additional pinch to fill out 4-5" containers. Crop time will be about 2 weeks longer than others in the series and can be shortened by increasing the number of liners per container.

Additional Culture Information for LUSCIOUS® *Lantana*

pH/EC:	5.8 - 6.2/.6-1.5
Rooting Out Temperature:	65-72° F (18-22° C)
Growing Temperature:	70-75° F (21-24° C)
Holding Temperature:	50-60° F (10-16° C)
Water Requirements:	Moderate to Moist
Planting and Timing:	Spring through Summer Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12
Spring Outdoor Finish:	Do not finish outside

Notes:

For all sizes of containers, pinch the liner 1-2 weeks after transplant; for containers larger than 6" and for hanging baskets, trim around the edge of the container as needed prior to spacing or hanging of the baskets. PGRs should not be needed. Winter flowering occurs in Sunbelt states. Luscious Marmalade and Luscious Bananarama may require a second pinch for shaping.

AWARD WINNER

LUSCIOUS® *Lantana*

244 Awards including: Top Performer, Michigan State; Leader of the Pack, North Carolina State; Top Pick, Missouri Botanic Garden; Outstanding Rating, Disney Trials; Top Performer, University of Delaware; Best Overall Impression, Oregon State University

Luscious Comparison Chart

Variety Name	Vigor	Habit	Height	In Combos
Bananarama	3	Mounding	18-30"	Yes, with vigorous companions
Berry Blend™	3	Upright	18-30"	Yes, with vigorous companions
Citrus Blend™	3	Upright	24-30"	Yes, with vigorous companions
Grape	2	Trailing	10-14"	Yes, with any
Lemonade	2	Mounding	24-30"	Yes, with any
Marmalade	3	Mounding	12-18"	Yes, with vigorous companions
Piña Colada	3	Upright Globe	12-26"	Due to habit, mix with trailing plants
Pinkberry Blend	3	Mounding	20-24"	Yes, with vigorous companions

LAGUNA™ White
Lobelia erinus 'Loubtrawi' USPP18216 Can3030

LAGUNA™ Sky Blue
Lobelia erinus 'Loboudtis' USPP15526 Can2304

LAGUNA™ Compact Blue with Eye
Lobelia erinus 'Lobetis' USPP16112 Can1975

LAGUNA™ Lobelia erinus

LANDSCAPE 8-12" Vigor: 3

Bred to take the summer heat better than typical lobelias, Laguna varieties are compact yet full, semi-upright plants covered in true blue or white, self-cleaning blossoms. They are ideal low maintenance plants for hanging baskets, window boxes, combination containers, and landscapes.

GROWING TIPS FOR LAGUNA™

- Preventive fungicides are recommended one week after transplanting.
- Grow cool with good air circulation once established.
- Requires high light in production and higher light and longer days to flower early.
- Needs 150-200 ppm fertilizer for optimal growth.
- In growing group BB (see page 253).

Additional Culture Information for LAGUNA™

pH/EC:	5.8 - 6.2/.6-.9
Rooting Out Temperature:	65-72º F (18-22º C)
Growing Temperature:	65-72º F (18-22º C)
Holding Temperature:	40-50º F (4-10º C) outdoors
Water Requirements:	Moderate to Moist
Planting and Timing:	Spring through Summer Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12
Spring Outdoor Finish:	Second to go outside

Notes:
For all sizes of containers, pinch the liner 1-2 weeks after transplant; for containers larger than 6" and for hanging baskets, trim around the edge of the container as needed prior to spacing or hanging of the baskets. 5-10 ppm Sumagic® spray is effective, if needed.

AWARD WINNER

LAGUNA™ *Lobelia*
19 Awards including: Best of the Best, University of Georgia; Best of Species, Penn State; Leader of the Pack, North Carolina State; Top Performer, Calgary Zoo and Botanic Garden

LUCIA® Dark Blue
Lobelia erinus 'USLOB0901' USPP21791 Can4076

LUCIA® Ultraviolet
Lobelia erinus '**' USPPAF CanPBRAF

LUCIA® Lobelia erinus

LANDSCAPE 8-12" Vigor: 2

Like Laguna, Lucia lobelias are also bred to handle the summer heat better than most, delivering good all-season performance in landscapes, hanging baskets, window boxes, and combination containers. Choose from deep blue or vivid royal purple, self-cleaning selections.

GROWING TIPS FOR LUCIA®

- Preventive fungicides are recommended one week after transplanting.
- Grow cool with good air circulation once established.
- Requires high light in production and higher light and longer days to flower early.
- Needs 150-200 ppm fertilizer for optimal growth.
- In growing group BB (see page 253).

Additional Culture Information for LUCIA®

pH/EC:	5.8 - 6.2/.6-.9
Rooting Out Temperature:	65-72º F (18-22º C)
Growing Temperature:	65-72º F (18-22º C)
Holding Temperature:	40-50º F (4-10º C) outdoors
Water Requirements:	Moderate to Moist
Planting and Timing:	Spring through Summer Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12
Spring Outdoor Finish:	Second to go outside

Notes:
For all sizes of containers, pinch the liner 1-2 weeks after transplant; for containers larger than 6" and for hanging baskets, trim around the edge of the container as needed prior to spacing or hanging of the baskets. 5-10 ppm Sumagic® spray is effective, if needed.

AWARD WINNER

LUCIA® *Lobelia*
13 Awards including: Gold Medal, University of Illinois Master Gardeners; Top Performer, Longwood Gardens; Consumer Choice, University of Florida - Fort Lauderdale

FROSTY KNIGHT®
Lobularia 'INLBUPRIPR' USPPAF Can4909
4-6"

DARK KNIGHT™
Lobularia 'INLOBU1007' USPPAF CanPBRAF
4-6"

SNOW PRINCESS®
Lobularia 'INLBUSNOPR' USPP21594 Can4189
4-8"

BLUSHING PRINCESS®
Lobularia 'INLBUBLUPR' USPP24516 Can4779
4-8"

WHITE KNIGHT®
Lobularia 'Inlbuwikni' USPP25210 Can4780
4-6"

PRINCESS and KNIGHT Lobularia

LANDSCAPE

Our collection of lobularia is exceptional in terms of habit, blooms, fragrance, and vigor choices. The Princess varieties are big, showy bloomers that are well matched with other vigorous growers, while the Knights are more restrained and so can pair well with medium-vigor plants. All display mounds of fragrant blooms from spring through fall.

GROWING TIPS FOR LOBULARIA

- Requires high light in production.
- Don't grow over plants that are sensitive to petal drop as these varieties can shed.
- Grow cool for best results, but growing too cold can cause purpling of the foliage.
- Very fast and vigorous grower.
- Needs 130-150 ppm fertilizer for optimal growth.
- In growing group AC (see page 253).

Additional Culture Information for Lobularia

pH/EC:	6.0 - 6.5/.6-.9
Rooting Out Temperature:	65-72° F (18-22° C)
Growing Temperature:	55-65° F (12-18° C)
Holding Temperature:	40-55° F (4-12° C) outdoors
Water Requirements:	Moderate to Moist
Planting and Timing:	Early Spring through Fall Finish. Standard Plants Per Container.
Finish Times in Weeks:	For 4-5", 3-5; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12
Spring Outdoor Finish:	First to go outside

Notes:
For all sizes of containers, pinch the liner 1-2 weeks after transplant; for containers larger than 6" and for hanging baskets, trim around the edge of the container as needed prior to spacing or hanging of the baskets.

Blushing Princess: Color is enhanced with brighter light and cooler temperatures. Growers in low light or warm houses can expect some fading of color intensity, but plants darken quickly once outside.

If you are used to growing Snow Princess and needing PGRs to control growth, reduce your PGR level for Blushing Princess, and grow your first crops of Frosty Knight, Dark Knight, and White Knight with minimal PGRs.

Top 50
P. Allen Smith
Platinum Collection

AWARD WINNERS

Princess and Knight *Lobularia*
263 Awards including: Superior Rating, Colorado State; Excellent Rating, Boerner Botanical Garden, Milwaukee, Wisconsin; Plant of the Month, Dallas Arboretum; Outstanding Rating, Disney Trials; Top Performer, Cornell University; Excellent Performer, University Laval; Top Performer; University of Florida - Fort Lauderdale; Top Performer, Kansas State University; Top Performer, Devonian Botanic Garden; Top Performer, Cornell University

NOTE: Blushing Princess opens white and turns to a lavender-silver in about a day. Brighter light will increase the lavender flower color.

Comparison Chart

Variety name	Vigor	Color	Foliage	In Combos
Snow Princess®	4	White	Dark green	Only with the most vigorous companion plants
Blushing Princess®	4	White-lavender	Medium green	With vigorous companion plants
Frosty Knight®	3	White	Variegated cream and green	With moderately vigorous companion plants, Frosty Knight plays well with others. Is a standout monoculture container.
White Knight®	3	White	Medium green	With half the vigor of Snow Princess, it is a better companion for less vigorous plants
Dark Knight™	3	Purple	Medium green	Vigor between White Knight® and Blushing Princess®, it is a better companion for less vigorous plants

SNOW PRINCESS® *Lobularia*

BLUSHING PRINCESS® *Lobularia*

GOLDDUST® *Mecardonia* 'USmeca8205' USPP22871 Can4383

GOLDDUST® Mecardonia

LANDSCAPE 2-5" Vigor: 3

This true yellow mecardonia flowers 6 weeks earlier than others. GoldDust's blooms are significantly smaller but far more plentiful than other mecardonia. This beauty loves the heat.

GROWING TIPS FOR GOLDDUST®

- Requires high light in production.
- 150-200 ppm fertilizer for optimal growth.
- Pinch twice. First at liner planting and then 4-5 weeks later.
- Proper water management is critical.
- In growing group CB (see page 253).

AWARD WINNER

GOLDDUST® Mecardonia

53 Awards including: Excellent Rating, Disney Trials; Top Performer, University of Wisconsin; Gardener's Choice, University of Florida; Top Performer, The Oregon Garden; Top Performer, Cornell University

Additional Culture Information for GOLDDUST®

pH/EC:	5.8 - 6.2/.6-.9
Rooting Out Temperature:	65-72º F (18-22º C)
Growing Temperature:	70-75° F (21-24º C)
Holding Temperature:	70-75° F (21-24º C)
Water Requirements:	Moderate to Moist
Planting and Timing:	Spring through Summer Finish. Standard Plants Per Container.
Finish Time in Weeks:	For 4-5", 4-6; for 6"/gallon, 5-7; for 8", 7-9; for 10-12", 10-12
Spring Outdoor Finish:	Do not finish outside

Notes:

No pinch necessary. For hanging baskets and containers larger than 6", trim around container edge just prior to hanging.