IRRESISTIBLE
SUPERBELLS® Yellow Calibrachoa
LAGUNA® ULTRAVIOLET™ Lobelia
SUNSATIA® BLOOD ORANGE™ Nemesia
THRILLER:
GRACEFUL GRASSES® Purple Fountain Grass Pennisetum

PUMPKIN SPICE LATTE
SUNSATIA® BLOOD ORANGE™ Nemesia
SUPERTUNIA® LATTE™ Petunia
SUPERBENA® Royale Plum Wine Verbena
THRILLER:
GRACEFUL GRASSES® Purple Fountain Grass Pennisetum
NEW
Exceptional Annuals from Proven Winners

New Arrivals for 2019
Start your checklist and reserve your favorite new varieties for 2019 sales today!

SPARKLE AND GLOW
SUPERBELLS® GRAPE PUNCH®
Calibrachoa
LAGUNA® ULTRAVIOLET®
Lobelia
SUPERBENA SPARKLING®
Amethyst Verbena
THRILLER:
METEOR SHOWER®
Verbena

STRAWBERRY SAUCE
SUPERBELLS® STRAWBERRY
PUNCH®
Calibrachoa
LAGUNA® White Lobelia
SUPERBENA® Royale
Romance Verbena
THRILLER:
GRACEFUL GRASSES®
’Sky Rocket’ Pennisetum

NEW ARRIVALS
New Arrivals for 2019

Exceptional Annuals from Proven Winners

- **LADY GODIVA™** Yellow Calendula 'Kercaldiyell' USPPAF CanPBRAF
- **DIAMOND MOUNTAIN™** Euphorbia
- **NEW IMPROVED**
- **LADY GODIVA™** Yellow Calendula 'Kercaldiyell' USPPAF CanPBRAF
- **DIAMOND MOUNTAIN™** Euphorbia
- **NEW**
- **SUPERBELLS®** CARDINAL STAR™ Calibrachoa ‘USCAL6940 4’ USPPAF CanPBRAF US Utility US931395
- **NEW**
- **SUPERBELLS®** Doublette LOVE SWEPT™ Calibrachoa ‘**’ USPPAF CanPBRAF US Utility US7786342
- **NEW**
- **SUPERBELLS®** EVENING STAR™ Improved Calibrachoa ‘BBCAL87705’ USPPAF CanPBRAF US Utility US931395
- **IMPROVED**
- **SUPERBELLS®** TANGERINE TANGLED™ Calibrachoa ‘**’ USPPAF CanPBRAF
- **NEW**
- **SUPERBELLS®** HOLY COW!™ Calibrachoa ‘BBCAL85303’ USPPAF CanPBRAF
- **NEW**
- **SUPERBELLS®** HOLY SMOKES!™ Calibrachoa ‘BBCAL85805’ USPPAF CanPBRAF
- **NEW**
- **SUPERBELLS®** TANGERINE TANGLED™ Calibrachoa ‘**’ USPPAF CanPBRAF
- **NEW**
- **TRUFFULA™** Pink Gomphrena pulchella ‘**’ USPPAF CanPBRAF
- **NEW**
- **HIPPO®** White Hypoestes phyllostachya ‘**’ USPPAF CanPBRAF
- **NEW**
- **HIPPO®** Pink Hypoestes phyllostachya ‘**’ USPPAF CanPBRAF
- **NEW**
New Arrivals for 2019
Exceptional Annuals from Proven Winners

Sweet Caroline Kiwi
Ipomoea batatas
** USPPAF CanPBRAF

Sweet Caroline Raven Improved
Ipomoea batatas
** USPPAF CanPBRAF

BRIGHT LIGHTS™ Pink
Osteospermum

LUSCIOUS® CITRUS BLENDS™ Improved
Lantana camara
** USPPAF CanPBRAF

SUPERTUNIA® Blue Skies
Petunia
** USPPAF CanPBRAF

LUSCIOUS® CITRUS BLENDS™ Improved
Lantana camara
** USPPAF CanPBRAF

SUPERTUNIA® White Charm
Petunia
** USPPAF CanPBRAF

SUPERTUNIA® Paradise
Petunia
** USPPAF CanPBRAF

ROCKIN’® Fuchsia
Salvia elegans
USPP17977 CanPBRAF

SUPERTUNIA® Pink
Petunia
** USPPAF CanPBRAF

SUPERTUNIA® White Skies
Petunia
** USPPAF CanPBRAF

SUPERTUNIA® White Charm
Petunia
** USPPAF CanPBRAF

ROCKIN’® ‘Golden Delicious’
Salvia elegans
USPP17977 CanPBRAF

WHIRLWIND® Pink
Scaevola aemula
** USPPAF CanPBRAF

NEW IMPROVED

NEW IMPROVED

NEW IMPROVED

NEW IMPROVED

NEW IMPROVED

NEW IMPROVED

NEW IMPROVED

NEW IMPROVED

NEW IMPROVED

NEW IMPROVED

NEW IMPROVED

NEW IMPROVED

NEW IMPROVED

NEW IMPROVED

NEW IMPROVED

NEW IMPROVED

NEW IMPROVED

NEW IMPROVED

NEW IMPROVED

NEW IMPROVED
New Arrivals for 2019
Exceptional Annuals from Proven Winners

- COLORBLAZE® GOLDEN DREAMS™ Solenostemon scutellarioides
- COLORBLAZE® Royal CHERRY BRANDY™ Solenostemon scutellarioides
- COLORBLAZE® REDICULOUS™ Solenostemon scutellarioides
- COLORBLAZE® SEDONA SUNSET™ Solenostemon scutellarioides
- COLORBLAZE® LEDA LIGHT™ Solenostemon scutellarioides
- COLORBLAZE® CHERRY BRAN DY™ Solenostemon scutellarioides
- COLORBLAZE® CHOCOLATE DROP Solenostemon scutellarioides
- COLORBLAZE® STRAWBERRY DROP Solenostemon scutellarioides

- SUPERBENA® Raspberry Verbena
- SUPERBENA® Scarlet Star Verbena
- SUPERBENA® Red Verbena
- SUPERBENA® WHITEOUT™ Verbena
Introducing the Proven Harvest™ Collection

![Proven Harvest Collection Plants]

1. **BERRIED TALE™ Red**
   - Fragaria ananassa
2. **BERRIED TALE™ Pink**
   - Fragaria ananassa
3. **AMAZEL™ Basil**
   - Ocimum
4. **‘Garden Treasure’**
   - Lycopersicon esculentum
5. **‘Garden Gem’**
   - Lycopersicon esculentum
TOP 50 Best-Selling Proven Winners Annuals in Canada

Start your checklist and reserve your favorite best-selling annual varieties.
TOP 50 Best-Selling Proven Winners Annuals in Canada

18. SUPERBELLS® Really Red Petunia
19. SUPERBELLS® GRAPE PUNCH™ Calibrachoa
20. GOLDEN COCKS ROCKS® Bicolor
21. GRACEFUL GRASSES® KING TUT® Cyperus
22. DIAMOND DELIGHT® Euphorbia
23. SUPERBELLS® PURPLE PUNCH™ Calibrachoa
24. SUPERBELLS® Red Calibrachoa
25. SNOWSTORM® SNOW GLOBE® Sanvitalia
26. SUPERBELLS® LIMONCELLO® Petunia
27. SANIBEL® Sanvitalia
28. SUPERBELLS® DREAMSICLE® Calibrachoa
29. SNOW PRINCESS® Lobelia
30. SUPERBELLS® White Calibrachoa
31. SUPERBUNIA® BERMUDA BEACH® Lobelia
32. LAGUNA® White Lobelia anceps
33. SUPERBUNIA® Violet tu Walenii
34. GRACEFUL GRASSES® Purple Fountain Grass
35. SUPERBELLS® EVENING STAR™ Calibrachoa
36. LAGUNA® Dark Blue Lobelia
37. GOLDEN BUTTERFLY® Argyranthemum
38. SUPERBELLS® HEDGE™ Verbena
39. SUPERBELLS® YELLOCHIFFON™ Calibrachoa
40. Sweet Caroline Raven Improved Ipomoea
41. SUPERBELLS® BLUE MOON PUZZLE™ Calibrachoa
TOP 50
Best-Selling Proven Winners Annuals in Canada

42. SUPERBELLS®
   Tropical Sunrise
   Calibrachoa

43. SUPERBELLS®
   HOLY MOLY™
   Calibrachoa

44. SUPERBELLS®
   Cherry Star
   Calibrachoa

45. GRACIFIC®
    GRACIFOLIA
    Cyperus

46. GRACEFUL GRASSES®
    BABY TOES™
    Sempervivum

47. Sweet Caroline Sweetheart
    JET BLACK™
    Ipomoea

48. LEMON CORAL™
    Sedum

49. ENDLESS™
    Illumination
    Browallia

50. SUPERBENA®
    Royale Peachy Keen
    Verbena
Building on the strong successes of our National Plant of the Year program, we are expanding the campaign this year. Growers have demonstrated extraordinary increases in sales of the plants featured and retailers have asked us to broaden the scope of the program. Offer our ready-to-go signage (shown on p.20) to promote these award-winning plants or let us help you and your customers create a custom look.

The Making of a Champion
The National Plants of the Year are never chosen at random. To reach this highest designation, Proven Winners annuals, perennials and shrubs must meet a strict set of criteria for consideration including:

Easy to Grow – They must be easy for both growers and gardeners alike to grow. It shouldn’t take an expert to grow beautiful flowers.

Iconic – Easily recognizable at a glance, the National Plants of the Year have an iconic style unmatched by lookalikes.

Readily Available – These plants are easy to find locally or online. Announcing the National Plants of the Year a year in advance helps growers be prepared for the demand.

Perfect for Baskets and Containers – The Annual of the Year grows beautifully in hanging baskets as well as upright patio containers and window boxes.

Outstanding Landscape Performance – Not just for containers, these plants also deliver a knockout performance when planted in landscapes.

Sonic Bloom® is a registered trademark of the Syngenta Group Company.
National Plants of the Year Promotion

We’re ready to launch a multimedia marketing campaign to build awareness and excitement for the 2019 National Plants of the Year. Look for promotions at consumer shows, online, through social media, print magazines and more. Then let us help you with your own marketing at the retail level. Here’s a quick look at our upcoming efforts.

Consumer Promotions

www.nationalplantoftheyear.com – This dedicated website is working hard to build consumer demand for all the exceptional varieties in the program. Share the excitement by linking to this site from your website and social media pages.

National Print Advertising – Ads running in popular Canadian lifestyle and gardening pubs reaching 7.4 million Canadian homes: House & Home Maison & Demeure The Prairie Garden Food & Drink

Garden Answer
Laura from Garden Answer is already hard at work crafting promotional videos for the 2019 National Plants of the Year. Her videos have been viewed over 40 million times on YouTube.

Gardener’s Idea Book – 46,000+ copies were delivered to Canadian residents in 2018. We expect the strong demand for this one of a kind publication to remain steady in 2019.

Retailer Resources

National Plant of the Year Program POP – Use our ready-to-go signage to promote these award-winning plants or let us help you and your customers create a custom look. Order online at www.provenwinners.com/catalog/point-purchase-materials-canada

National Plant of the Year Program Social Media and Web Graphics – Let us help you promote the National Plants of the Year with free graphics to use on your own social media sites and website. Get started at www.provenwinners.com/social_media.

Catch Us on Your Commute

Billboard messages displayed each spring along the nation’s busiest roadways remind consumers that it is time to head to their local retailer to find and plant Proven Winners. Check out all our billboard locations for Spring 2019 at www.provenwinners.com/professionals/advertising

<table>
<thead>
<tr>
<th>Market</th>
<th># of Billboards</th>
<th>Weekly Impressions</th>
<th>Total Impressions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quebec/Montreal</td>
<td>7</td>
<td>1,988,588</td>
<td>7,954,352</td>
</tr>
<tr>
<td>British Columbia</td>
<td>7</td>
<td>1,889,286</td>
<td>7,557,144</td>
</tr>
<tr>
<td>Alberta</td>
<td>6</td>
<td>1,560,566</td>
<td>6,242,264</td>
</tr>
<tr>
<td>Ontario</td>
<td>8</td>
<td>3,106,411</td>
<td>12,425,644</td>
</tr>
<tr>
<td>Total</td>
<td>26</td>
<td>8,544,851</td>
<td>34,179,404</td>
</tr>
</tbody>
</table>

Subject to change, figures represent the 2018 billboard campaign.

Final artwork is subject to change.
Let Us Work for You

Our passion is inspiring people with new ideas about how to use plants to make their world more beautiful. We continue to spread the word through our annual Gardener’s Idea Book which reaches 450,000 people across North America. Chock-full of inspiring imagery backed by expanded content on beauty.provenwinners.com, this little book is one of your best resources. 57% of retailers have reported that customers come in to their stores with the Gardener’s Idea Book in hand and request plants by name.

Customize Your Message

Add your marketing message to the back cover of the Gardener’s Idea Book by March 15, 2019 for FREE and we’ll mail them out for you – no charge for the books, you just pay the postage. Or make the Gardener’s Idea Book your own by submitting your design ideas to us by January 25, 2019 and we’ll print a fully customized back cover for your mailing list. Learn how customization can work for your business at provenwinners.com/share-booklet or contact Sandy at 1-815-895-1872 or Sandy@provenwinners.com.

Order Extras for Giveaways

Gardeners love giveaways! Order extra cases of the Gardener’s Idea Book to give away at your registers and events. Retailers who take advantage of our customized message offer pay just $50 + shipping per case of 100 books. Those who aren’t and would like to purchase cases of the books separately can do so for $65 + shipping per case of 100. Either way, it’s one of the most cost-effective ways to put actionable gardening ideas into the hands of your customers. Call 1-815-895-1872 or place your order online.

Expanded Content on beauty.provenwinners.com

Moving well beyond words and pictures on paper, we bring the concepts from the Gardener’s Idea Book to life online at beauty.provenwinners.com, on specially created Pinterest boards, in videos and feature articles. This content becomes available online in mid-February as the printed book delivery begins. We welcome you to share our #1 resource by linking to and sharing the Gardener’s Idea Book content on your own website and social channels. We hope you will use these resources as inspiration for in-store workshops, endcaps, and creating your own original content to motivate your customers.

Share the #1 Resource of the Year: Gardener’s Idea Book

“We have and continue to have the Gardener’s Idea Book sent to our customers. We love it and have wonderful feedback from our customers who bring it in with them when making their plant selections. It is an awesome inspirational book with wonderful tips and information in it.”

Becca Massat – The Growing Place

46,000+ copies of the Gardener’s Idea Book were sent by request to Canadian gardeners in 2018.

Go to www.beauty.provenwinners.com
How We Support Our Independent Retailers

Become a Certified Retailer

It’s simple – a trained staff is more effective. Companies that invest in staff training routinely see an increase in productivity, revenue and employee loyalty. While some training programs can be costly, we are offering to train your staff on Proven Winners plants and products for FREE. Why? Because when you’re successful, we’re successful. We want you to be armed with everything you need to know to have a profitable season.

Join 1,010 other garden centres and 7,868 employees who became Certified Retailers in 2018. 99% of Certified ICG employees say they would recommend our training program to a co-worker. Training is available from Feb 1 through May 1 every year at www.provenwinners.com/training.

Certified Retailers Gain Greater Visibility

Once a Proven Winners retailer completes their certification, they automatically receive a priority listing on our online Retailer Locator. This listing is displayed prominently throughout our website which hosts millions of visitors each season. Get certified and be seen, simple as that.

88 Certified Garden Centres in Canada

Bloom’E Acres Greenhouses – Brooks AB
BMRH Greenhouses & Watergardens – Leduc County AB
Canmore Nurseries Spruce Grove Ltd. – Spruce Grove AB
Christie’s Gardens and Greenhouses – High Prairie AB
Country Breeze Garden Centre – Lethbridge County AB
Estate Gardens – Sherwood Park AB
Floral Garden Creations – Bentley AB
Green Valley Gardens – Camrose AB
Greenlake Garden Centres Ltd. – Calgary AB
Hilltop Greenhouses – Monarch AB
Parkland Nurseries & Garden Center Ltd. – Calgary AB
I.C. Farms – Whitecourt AB
Sunnyside Greenhouses Ltd – Calgary AB
The Big Greenhouse – Spruce Grove AB
Grow & Gather (Trice Farms Ltd.) – Maple Ridge BC
Bloomers – Maple Ridge BC
Cedar Rim Nursery – Langley BC
Fletcher Building Supplies – Princeton BC
Grow & Gather (Trice Farms Ltd.) – Maple Ridge BC
High Mountain Farm – Salmon Arm BC
Hummocks Gardens – Prince George BC
Hunters Garden Centre – Broadway Vancouver BC
Hunters Garden Centre – Surrey, Surrey BC
Morris Flowers – Creston BC
Mother Nature – Powell River BC
Nicholas Alexander Home & Garden – Vernon BC
Purity Feed Company – Kamloops BC

Purity Feed Farm and Garden Centre – Merritt BC
Top Crop Garden Farm & Pot – Cranbrook BC
Top Crop Too – Kimberley BC
Winston Greenhouse Ltd – Abbotsford BC
Glenlea Greenhouses – St. Agathe MB
Golden Plains Greenhouse – Krasel MB
Petal Place – St. Andrews MB
Pineview Greenhouses – Beausoleil MB
Second Source Greenhouse – Dauphin MB
Shertington Garden Centre Ltd. – Headingly MB
The Garden Spot – Swan River MB
Prairie Grove Greenhouse – Dauphin MB
Dooyear Greenhouse – Florenceville-Bristol NB
Shades of Green Ltd – Saint John NB
DuPuis Greenhouses – Antigonish NS
Aalborg Greenhouses – Sudbury ON
Backyard By Design Garden Centre – Ingersoll ON
Bala Garden Centre – Bala ON
Baltimore Valley Garden Centre – Baltimore ON
Black Forest Garden Centre – King City ON
Canadian Tire #1010 Stratford – Stratford ON
Canadian Tire Corporation #182 – Toronto ON
Cindy’s Home and Garden – Kingisville ON
Coyle’s Paint & Garden Centre – Grimsby ON
Cottage Gardens – Norwalk ON
Country Lane Greenhouse – Wyebridge ON
Coville’s Greenhouses – Prescott ON

Dufferin’s Nurseries – Simcoe ON
Ferragine Greenhouses – Brantford ON
Gibb’s Nursery & Garden Centre – Broyles ON
Harper’s Garden Centre – Hamilton ON
Holbrook Park Garden Gallery – Burlington ON
Horings Garden Centre – Solway ON
Hutchinson Farm – Burlington ON
Kennedt Gardens – Caledon ON
Lakeside Garden Gallery – Brampton ON
Lee and Man’s Market – Kingsville ON
Make It Green Garden Centre – Sittsville ON
New North Greenhouses – Sault Ste. Marie ON
Oxford Insta-shade Inc – Burgessville ON
Plant Paradise Garden Centres – Caledon ON
Port Credit Garden Centre Port – Caring ON
Pruitt’s Lawn Care & Landscapes – Bala ON
Springbank Greenhouses – Mississauga ON
St. Jacobs Country Gardens Inc. – Elmira ON
Sun Honest Greenhouses – Guelph ON
The Country Basket Garden Centre and Flower Boutique – Niagara Falls ON
The Glasshouse – Chatham ON
Terry’s Garden Landscape Limited – Stratford ON
Van Doegens Tree Farm – Hornby ON
Viking Nursery Ltd – Goderich ON
Whitehorse Perennials – Almonte ON
Pepiniere Lapointe Inc. – Mascouche QC
Stokes Bros. Greenhouses – Thornhill ON

Proven Signage Solutions

Order ready-to-go signage at provenwinners.com/signage. Or get started on your customized POP for spring by contacting Tabatha at tabatha@provenwinners.com or 1-801-527-9213.

Expanded Training Available

Join the Proven Winners University and take advantage of a valuable benefit created exclusively for our Certified Retailers. Going beyond the topics covered in our Certified Training program, we’ve created a series of additional training videos on topics like container gardening, pollinators, garden pests, and sales and marketing tips. These 2-5 minute, informative videos can be used in weekly staff meetings, assigned to employees to complete on their own, or shown on a kiosk in your store.

“This year, I chose four new team members that showed potential for retail sales to do some training with the Proven Winners University videos. I am so impressed! Great info. After watching them, we reviewed the selling features and grower tips. I have asked each associate to watch one video per night and report back to me about how they would recommend the plants to their customers. It also gave us an opportunity to refresh basic customer service skills like eye contact, body language and how we speak to our customers. This was a super productive exercise. Thank you and keep up the great work!”

Karen Van Duyvenhdy
Dutch Growers Home & Garden Regina, SK Canada

Ready-to-Go

Popular pre-printed signage including posters, banners, benchcards and more is the fastest way to sign your store before opening day. Don’t miss our newly redesigned benchcards, square posters and recipe signage this year.

We also have many POP items in French.

Semi-Customized

Add your business’ logo to our standard signage for an easy branded solution for all your POP needs. We’ll ship it within a week of final proof approval. Use your new customized signage to create a Proven Winners destination within your store or order select pieces for special displays.

Fully Customized

Let’s work together to create signage that matches your store’s style. You’ll choose imagery that reflects popular plants in your region, add your logo and custom message. We’ll take care of everything else so you’ll be ready to sign your store in your own signature style.
Laura and Aaron from Garden Answer have become key influencers for Proven Winners, with their popularity skyrocketing in the last year alone. Currently, over 2.3 million fans follow them on Facebook, and their YouTube gardening videos have been viewed over 40 million times. Proven Winners is financing the production of over 100 Garden Answer videos each year, focusing exclusively on Proven Winners plants — available for your use.

Keys to Laura’s Success

• She’s a relatable, real-world figure who knows her stuff. She’s not afraid to show her successes and failures.
• People trust her recommendations. 92% of consumers are more likely to trust their peers over advertising when it comes to purchase decisions.
• People want to be like her. Retailers have told us their customers come in looking for the products Laura has used in her videos. 84% of consumers will take action based on the reviews and recommendations of trusted sources.

Watch These 3 Video Trends

• Prediction: 80% of all information consumed online will be available in video format by 2019. (Source: Cisco study)
  Our brain processes video 60,000 times faster than reading text, so it’s a quick way to learn.
• People who watch videos of products are 85% more likely to buy them. (Source: TechSmith)
  Include video clips in your e-newsletters, online product catalog, and social media posts.
• 85% of Facebook videos are watched without sound. (Source: displayr.com) Include a transcription of the video for search purposes, as well as a compelling video title and description that includes a live link back to your website.

Garden Answer Videos

Garden Answer creates exclusive video content for Proven Winners which our customers are encouraged to share on their own social channels and websites. Keep up to date with their video content by visiting provenwinners.com/Professionals_Garden_Answer where we post a list of their current projects and possible plants featured. Interested parties can sign up to receive an email notification whenever this page is updated. Instructions on how to embed their videos onto your page from YouTube is also included on this page.

Retailers interested in obtaining customized Garden Answer video content for 2019 should email Jessica DeGraaf at jessica@provenwinners.com or Meghan Owens at meghan@provenwinners.com.

Inspiring Content You Can Share

Professional quality, eye-catching social media graphics are available for your business to download and share. Select from images pre-sized for Facebook, Twitter, Instagram or Pinterest, or get creative and make your own using our free image library. A wealth of imagery is available at your fingertips to reach your online audiences. Here are a few examples of retailers who have shared our free content.

Go to www.provenwinners.com/social_media to learn more.
Reaching Consumers from Every Angle

The Proven Winners marketing team is dedicated to communicating the brand promise to consumers where they live – online, on the road, at home, even in line at the grocery store. Here’s how we’re working to spread the message.

National Print Advertising
We’ll create millions of impressions of Lemon Coral® Sedum in our 2019 advertising campaign which reaches across the U.S. and Canada.

Websites
More than 3.8 million visitors have visited our websites this year: provenwinners.com, beauty.provenwinners.com and nationalplantoftheyear.com

Social Media Marketing
Today’s Purchasing Model: Excite Connect Collect Convert Delight
Show them an enticing offer, engage with them about it online, collect their information in exchange for the sale, and celebrate their delight with your product. Here’s where we are reaching consumers every day through our social media efforts.

E-Newsletter
Over 186,000 consumers have opted in to receive our monthly Winner’s Circle e-newsletter, a 5.6% increase over the previous year. 14% are Canadian subscribers.

Gardening Simplified – This 100-page gardening magazine is filled with tips, how-to articles and beautiful images showcasing the Proven Winners® ColorChoice® collection of shrubs. Free copies are available for your events by contacting Spring Meadow Nursery.

www.SpringMeadowNursery.com

Proven Winners® ColorChoice® Marketing

Driving Consumer Demand
When you offer Proven Winners ColorChoice Flowering Shrubs, you’re tapping into an extensive consumer promotion campaign that works every day to build trust and recognition of the brand. Count on us to take care of marketing so you can focus on getting high quality finished plants into the marketplace.

Gardener’s Idea Book
450,000 copies of our popular Gardener’s Idea Book are distributed in the U.S. and 16,000 in Canada by request every year.

Canada Blooms Festival
Nearly 175,000 attendees will see new Proven Winners varieties and our National Plants of the Year in 2019. That exposure is multiplied exponentially by the show’s extensive marketing campaign which precedes the festival.

2018-2019 Consumer Print Ads – 12 new/redesigned ads can be seen in publications across North-America. Proven Winners ColorChoice shrub ads ran year-round in 8 national, 28 regional and 5 Canadian magazines including Canadian Living, Food and Drink, and Ricardo.

The Invincibelle Spirit Campaign for a Cure
We’re proud to support The Breast Cancer Research Foundation® (BCRF) with a $1 per plant donation on every Invincibelle® Spirit hydrangea that is sold via garden centers across the U.S. and Canada. With the generosity of our community of growers, over $1 million has been donated so far, and the campaign is still going strong!

Sharable Social Media Content – Inspiring visual content, which you can encourage your customers to share, is posted every day on our social media channels.

Radio – Our broadcast radio campaign covers 13 major metro markets, including those in Chicago – WGN & WBBM and in Toronto – CHUM FM & NEWSSTALK 1010.
Stay Informed – Sign Up Today

Don’t miss our newsletters for growers and retailers.

Do you receive our monthly newsletters? Sign up today at www.provenwinners.com/professionals/newsletters.

Our Grower Newsletter includes videos on plant varieties and culture information, combination ideas, growing tips for a variety of greenhouse settings, trial garden updates, and event information.

Our Retailer Newsletter includes ideas from retailer settings across the U.S. and Canada, the latest in social media with links to ready to use graphics, new plant information, our popular Smart Shrub blog, and updates on our promotional efforts.

Tips for success – Snowstorm Sutera

Snowstorm® Sutera is a key competitor plant in any mixed-packet mixed-pack nods. This tiny bright white flower is fantastic for bedding, masses, and combinations. Sutera and Sutera ‘Snowstorm’ are easy to grow in any soil and conditions, perform well in almost any setting and produce abundantly late in the season. Be sure to get yours now to fill your beds and borders. Need to divide and transplant your Sutera? Not a problem! Snowstorm® Sutera, along with other Proven Winners® plants, is easy to grow and divide. So don’t miss out! Get yours today!

Facts

- Cold hardy
- Petals are a pure white
- Single flower, no petals
- Self-owing
- Can be used in arrays, mass plantings, and borders
- Good for containers

Use this as a very early seed to space to keep it in mixed and cut flower银河. It is a very easy to grow and an early seed to space for spring color.

Great graphics and projects to share

The Proven Winners® logo is available as a vector file on our website. You can use this logo to create any design or project that you need. Simply download the vector file and use it in your designs. For more information, please visit our website.

Grower Newsletter

Retailer Newsletter
Annual Collection
**ANNUAL 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 in Growing Temperature, second letter is pH.

---

**ARTIST®** Ageratum

| Culture | 24-30cm (9-12”) | Vigor: 2 |

These bountiful bloomers are sturdy, compact, and very heavily branched plants 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 149).*

**Notes:**

- Pricking is not recommended. A light Sunagic® spray (0-5 ppm) or B9 (2000-5000) has been shown to be effective on Ageratum. Growth can also be controlled using holding temperatures. Winter flowering occurs in Sunbelt states.

**AWARD WINNERS – ARTIST®** Ageratum

- 45 Awards including: Excellent Rating; Best of the Best, University of Georgia; Best of Species; Penn State; Top Pick; Dallas Abetson; Top Performer; Kansas State University

---

**SILVER BULLET®** Artemisia stelleriana

| Culture | 15-25cm (6-10”) | Zones 5-9 | Vigor: 3 |

Meet one of the best 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.

**Growing Tips for SILVER BULLET®**

- 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 chlorosis, keep plants on the dry side.
- 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 149).

**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 Silver Bullet® is a very fast growing plant, growth can be controlled by reducing fertility or withholding water.

**AWARD WINNER – SILVER BULLET®** Artemisia

- 26 Awards including: Perfect Score; Perfect Flower; Leader of the Pack; NC State; Top Performer; Michigan State University

---

**BUTTERFLY®** Argyranthemum frutescens

| Culture | 36-81cm (14-32”) | Vigor: 3 |

Marguerite Daisies are some of the most well-known and loved flowers among gardeners, and we’ve improved our line to include some of the most heat tolerant cultivars with cleaner, brighter flowers that don’t require deadheading. All three in the series are well-matched for timing and size, taking the guesswork out of the equation for growers, retailers and landscapers.

**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.

**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 Sunagic® spray or a 1-3 ppm B9 (2000-5000) will help control growth. Winter flowering occurs in the Sunbelt states when grown under long days.

---

**ARTIST®** Ageratum

| Culture | 15-25cm (6-10”) | Zones 5-9 | Vigor: 3 |

**AWARD WINNERS – ARTIST®** Ageratum

- 45 Awards including: Excellent Rating; Best of the Best, University of Georgia; Best of Species; Penn State; Top Pick; Dallas Abetson; Top Performer; Kansas State University

---

**AWARD WINNERS – SILVER BULLET®** Artemisia

- 26 Awards including: Perfect Score; Perfect Flower; Leader of the Pack; NC State; Top Performer; Michigan State University

---

**AWARD WINNERS – BUTTERFLY®** Argyranthemum

- 89 Awards including: Perfect Score; University of Guelph; Excellent Rating; University Laval; Perfect Score; Oregon State University

---

*First letter in Growing Temperature, second letter is pH.*
Angelface Angelonia is a classic thriller for containers and adds verticality to garden beds. Growers and gardeners alike appreciate that their showy flower spikes don’t require deadheading for continuous bloom. This is a sun, heat and humidity-loving plant that is stunning when offered in 1-gallon or larger containers on retail endcaps from early summer to fall.

Angelface Super varieties were bred to be bigger, bolder accent plants for planting en masse in landscapes. They mature to over three feet tall and become covered in flowers from top to bottom. Deer tend to pass them by because of their fragrant foliage.

We’ve improved on this top seller by adding extra branching, more upright stems, and a stronger flowering performance. It’s a great match to all others in the series. Improved this year.

A new color for the series; large, silvery lavender flowers appear on bold scapes. Pairs beautifully with trending blush pinks and silvers in container recipes. New this year.

We’ve improved this popular cultivar by making its stems stand more upright and packed with flowers. Its size and timing match well with others in the series. Improved this year.
ANGELFACE® Cascade Angelonia

We’re bringing the same heat, humidity and drought tolerance of standard upright angelonias to a new line of cascading types that are perfect for hanging baskets. These plants have outward and downward spreading stems, making them ideal fillers and spillers in container recipes. Pair them with other medium vigor, sun loving annuals.

ANGELFACE® Cascade Blue Angelonia
Vivid violet-purple flowers require no deadheading to bloom non-stop all season. New this year.

ANGELFACE® Cascade Pink Angelonia
Clear pink flowers bloom prolifically all season without deadheading. New this year.

ANGELFACE® Cascade White Angelonia
Radiant white flowers require no deadheading to continue blooming all season. 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 149).

Notes: 'Finch®' or larger containers at transplant for large plugs, 2 weeks after transplant for smaller containers. Floric® causes tip burn and distorted growth. Sunrice® is effective (1-5 ppm), but other growth regulators can delay flowering.

AWARD WINNERS – ANGELFACE® Angelonia
66 Awards including: Superior Rating, Disney; Top Performer, Ohio State; Excellent Rating, Binnorie Botanical Garden, AUS; Outstanding, Wisconsin; Best of the Best, University of Georgia; Best Varnished, Penn State; Top Pick, Cornell University.

AWARD WINNER – PEGASUS® Begonia
27 Awards including: Top Performer, Colorado State University; Top Performer, Jardin Danél A Seguin; Top Performer, Manuscript Horticulture Society; Leader of the Pack, North Carolina State University; Top Performer, Texas A&M; Top Performer, University of Tennessee-Knoxville.

NEW

ANGELFACE® Cascade Blue Angelonia
20-36cm (8-14”)

ANGELFACE® Cascade Pink Angelonia
20-36cm (8-14”)

ANGELFACE® Cascade White Angelonia
20-36cm (8-14”)

NEW

PEGASUS® Begonia

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 50º F to look its best.
- In growing group BA (see page 149).

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

AWARD WINNERS – PEGASUS® Begonia
60 Awards including: Leader of the Pack, NC State; Best of the Best, University of Georgia; Best Varieties, Penn State; Top Pick, Cornell University.

SUREFIRE® Begonia benariensis

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 landscapes. It’s also a great shade option for areas prone to downy mildew. Ideal for 4.25 Grande™ and 1.0 Royale™ containers.

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 149).

Notes: Treat with preventative broad-spectrum fungicidal drench one week after transplant. Scout crops regularly for disease development. Key account customers can purchase and propagate seed on your own. Contact your propagator for additional information.

AWARD WINNERS – SUREFIRE® Begonia
75 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.

SUREFIRE® Red Begonia benariensis

SUREFIRE® Rose Begonia benariensis
Responding to the needs of our growers, our bicolor Bidens is a more restrained, well-branched selection that works well in combination containers and hanging baskets. This vigorous plant thrives in heat and drought conditions, and its deep orange and yellow patterned blossoms keep right on coming from spring into fall without deadheading.

**Growing Tips for Bidens**
- Requires high light in production.
- 150-200 ppm fertilizer for optimal growth.
- Good air circulation, control of humidity and good sanitation practices are critical.
- In growing group AB (see page 149).

**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 (2500 ppm) and Sumagic® (5 ppm) should be effective on Goldilocks Rocks and Campfire Fireburst.

**AWARD WINNER – CAMPFIRE® Fireburst**
51 Awards including: Excellent Rating, University Laval; Top Performer, University of Guelph; Consumer Top Choice, Jardin Daniel A. Seguin; Top Performer, Raker Trial

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

**Using ENDLESS® Browallia**
- 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 149).

**AWARD WINNER – ENDLESS® Illumination**
22 Awards including: Top Performer, Penn State; Best Varieties, Colorado State University; Top Performer, Ohio State University Extension; Excellent Cool Season, Disney

**ENDLESS® Flirtation**
- 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. Sticking in monoculture containers and Grande® containers, Endless is equally stunning mixed with other medium vigor varieties in shade loving hanging baskets.

**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 149).
BROADEN YOUR SPRING AND FALL LINEUP OF COLD TOLERANT ANNUALS WITH LADY GODIVA CALENDULA. OUR DOUBLE-FLOWERS HAVE GREATLY REDUCED SEED SET AS WELL AS INCREASED HEAT AND DROUGHT TOLERANCE, SO THE FLOWERS KEEP RIGHT ON COMING ALL SEASON. GOOD DISEASE RESISTANCE MAKES THEM EASIER TO PRODUCE, TOO. TRY COMBINING THEM WITH OTHER MEDIUM VIGOR Varieties IN UPRIGHT CONTAINERS AND LANDSCAPES.

LADY GODIVA™ Yellow Calibrachoa ‘kercaldiyell’ USPPAF CanPBRAF

This double-flowered, bright yellow selection is easy to produce alongside Lady Godiva Orange for spring and fall sales. New this year.

Growing Tips for LADY GODIVA™
- High light in production is essential.
- Good water management practices are critical. Avoid overhead watering late in the day and grow slightly dry.
- 150-200 ppm fertilizer for optimal growth.
- Using fertilizer high in ammonia can cause excessive vegetative growth and lack of flowers.
- In growing group AB. (see page 149).

Notes:
- Pinch at 1-2 weeks after transplant if needed.
- A routine fungicidal spray program is encouraged.
- Growth can be controlled using lower temperatures.

AWARD WINNERS – LADY GODIVA™
- 20 Awards including: Top Performer, University of Guelph; Leader of the Pack, NC State; Top Performer, Cornell University; Outstanding Rating, Colorado State University

Often imitated. Never equaled.

With so many Calibrachoa 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 calibrachoa.
- 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 and Pomegranate Punch may need additional early pinch or PGR treatment in low light environments.
- In growing group AA (see page 149).

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 placing in hanging or 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, phytophthora, and phymosporia, 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 texture are also critical. Scout regularly for aphids, especially in baskets.

AWARD WINNERS – SUPERBELLS® Calibrachoa
- 526 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

Above: SUPERBELLS® Cherry Star Calibrachoa and SUPERBELLS® YELLOW CHIFFON™ Calibrachoa with Sweet Caroline Sweetheart Lime Ipomoea
SUPERBELLS® CARDINAL STAR™
Calibrachoa 'USCAL69404' USPPAF CanPBRAF  US Utility 9313959
A color expansion for the line, this striking selection features an abundance of cardinal red flowers with a shining yellow star pattern that blanket the cascading stems. New this year.

SUPERBELLS® Double Chiffon
Calibrachoa '**' USPPAF CanPBRAF  US Utility 7786342
A star performer in the line, this vigorous selection bears exquisite fully double, soft lemon yellow flowers on bushy, cascading plants beginning early in spring. New this year.

SUPERBELLS® EVENING STAR™ Improved
Calibrachoa 'BBCAL87705' USPPAF CanPBRAF  US Utility 9313959
We’ve amped up the flower power on this cultivar by making them larger, brighter non-fading purple, and with a more prominent star pattern that reaches the edges of each blossom. Improved this year.

SUPERBELLS® HOLY COW!™
Calibrachoa 'BBCAL85303' USPPAF CanPBRAF
Building off the success of Holy Moly!®, this new cultivar has similar speckled, star-patterned flowers in shades of glowing pink and white with a yellow throat. New this year.

SUPERBELLS® HOLY SMOKES!™
Calibrachoa 'BBCAL85805' USPPAF CanPBRAF
Expect the same outstanding performance and speckled, star-patterned flowers as Holy Moly!®, but in shades of lavender and white with a yellow throat. New this year.

SUPERBELLS® TANGERINE PUNCH™
Calibrachoa 'USPPAF CanPBRAF' Our best orange calibrachoa to date. Large flowers in saturated tangerine orange and deep red tones deliver an outstanding performance. Early to flower, well-matched to other Punch varieties. New this year.

SUPERBELLS® Doublette LOVE SWEPT™
Calibrachoa '**' USPPAF CanPBRAF  US Utility 7786342
A pure white picotee outlines each hot pink petal of this exquisite double calibrachoa. Doublette selections are tightly compact and easier to grow in smaller containers and window boxes. New this year.

SUPERBELLS®izzie LOVE SWEPT™
Calibrachoa '**' USPPAF CanPBRAF  US Utility 7786342
A pure white picotee outlines each hot pink petal of this exquisite double calibrachoa. Doublette selections are tightly compact and easier to grow in smaller containers and window boxes. New this year.

SUPERBELLS® TANGERINE PUNCH™
Calibrachoa 'USPPAF CanPBRAF' Our best orange calibrachoa to date. Large flowers in saturated tangerine orange and deep red tones deliver an outstanding performance. Early to flower, well-matched to other Punch varieties. New this year.

SUPERBELLS® TANGERINE PUNCH™
Calibrachoa 'USPPAF CanPBRAF' Our best orange calibrachoa to date. Large flowers in saturated tangerine orange and deep red tones deliver an outstanding performance. Early to flower, well-matched to other Punch varieties. New this year.
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.

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. 200-300ppm 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.
- In growing group CB (see page 149).

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 hold a crop or if control of growth is desired. Check manufacturers’ labels for approved rates and usage recommendations.
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 149).

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
20 Awards including: Excellent Rating, Massachusetts Horticultural Society; Excellent Rating, Breen Botanical Garden, Milwaukee, Wisconsin; Best of Breed, North Carolina State

Señorita and Pequeña Cleome
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. 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 149).

Notes:
- Treat with preventative broad spectrum fungicide 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.

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 Grande® container for each plant. Orders for liners placed without orders for containers will not ship.

AWARD WINNER – SEÑORITA AND PEQUEÑA Cleome
237 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

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. 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 149).

Notes:
- Treat with preventative broad spectrum fungicide 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.
Vermillionaire®
Cuphea

Vermillionaire is an absolute hummingbird magnet. It’s extremely heat and humidity tolerant and is very low maintenance. Though it’s drought tolerant, it can also tolerate higher moisture levels.

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.
- In growing group BC (see page 149).

Notes: Pinch at 1-2 weeks after transplant if needed.

AWARD WINNER – VERMILLIONAIRE®
18 Awards including: Top Performer, Costa Farms; Top Performer, Disney; Top Performer, Disney; Top Performer, Disney; Top Performer, Disney; Top Performer, Disney.

FAIRY DUST® Pink
Cuphea ramosissima

FAIRY DUST® Pink
Cuphea ramosissima

Growing Tips for FAIRY DUST®
- Requires high light in production.
- Avoid overwatering, especially early in the crop cycle.
- Plants can be run a little dry but not to the point of wilt, which causes leaf burn.
- 150-200 ppm fertilizer for optimal growth.
- In growing group BC (see page 149).

Notes: Pinch at 1-2 weeks after transplant if needed.

AWARD WINNER – FAIRY DUST® Pink
Cuphea
18 Awards including: Best in Trial, Massachusetts Horticultural Society; Best of Breed, NC State; Top Performer, Penn State; Excellent Warm Season, Disney.

Mystic Illusion®
Dahlia

Mystic Illusion is 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.

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 149).

Notes: Do a soft pinch at 1-2 weeks after transplant if needed. Plants can be pinched to shape. Pinching growth tips encourages fuller growth. Hard pinches can stall growth. Treat with preventative broad spectrum fungicidal drench 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® Dahlia variabilis

These gorgeous mid-sized dahlias were selected to grow better in spring conditions and tolerate shorter days without forming tubers and shifting away from new growth. The resulting plants bloom longer and are naturally well-branched with strong stems and good disease resistance.

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 149).

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 51 Awards including: Top Performer, Penn State; Top Performer, University of Georgia; Top Performer, University of Minnesota-Morris

DAHLIGHTFUL® Lively Lavender Dahlia variabilis ‘G13532’ USPP28209 CanPBRAF

DIAMOND Euphorbia

Among the most versatile annuals in our lineup, Diamond Euphorbias offer a range of habits for every use, from hanging baskets to edging borders or competing with the most vigorous varieties in recipes. They are exceptionally heat and drought tolerant, providing a refined texture for elegant combinations in sun and shade.

DIAMOND DELIGHT® Euphorbia

DIAMOND FROST® Euphorbia

DIAMOND MOUNTAIN™ Euphorbia

AwDard Winners – DIAMOND DELIGHT® Euphorbia 35 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

DIAMOND DELIGHT® Euphorbia ‘INEUPDIDAZ’ USPP26848 Can5269

Easily distinguished by its tightly mounded, well-branched habit, this double-flowered cultivar packs a lot of color onto a small plant. Expect it to grow about 25% smaller than Diamond Frost with a denser shape. It makes a great edging in landscapes and works well in smaller patio containers.

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 equalled!

DIAMOND MOUNTAIN™ Euphorbia

This super-sized Euphorbia makes magnificent hanging baskets and extra-large upright containers when combined with our most vigorous plants like Supertunia Vista® petunias. It’s also spectacular in the landscape, growing similar in size to a spirea shrub. New this year.

Growing Tips for DIAMOND Euphorbia
- 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 149).

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

AWARD WINNERS – DIAMOND FROST® Euphorbia 150 Awards including: Rising Star, Dallas Arboretum; Best of the Best, University of Georgia; Superior Rating, Colorado State; Top Performer, Ohio State

DIAMOND DELIGHT® Euphorbia

DIAMOND MOUNTAIN™ Euphorbia

This super-sized Euphorbia makes magnificent hanging baskets and extra-large upright containers when combined with our most vigorous plants like Supertunia Vista® petunias. It’s also spectacular in the landscape, growing similar in size to a spirea shrub. New this year.
Stunning true sky blue flowers are the signature of this popular annual. Drought, heat and humidity tolerance helps it thrive on neglect in containers and landscapes. This cultivar is better branched with larger flowers compared to 'Blue Daze'. Northern growers should use caution to not bring it in too early as it must be protected from even a light frost. Best in 4.25 Grande™ and 1.0 Royale™ containers.

Growing Tips for BLUE MY MIND®
- This is a HOT season crop. When night temperatures are below 65º F (18º C), the plant’s growth drops off. 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 149).

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

AWARD WINNER – BLUE MY MIND® Evolvulus
61 Awards including: Top Performer, Texas A & M; Best of Show, University of Wisconsin; Top Performer, Massachusetts Horticultural Society at Eve Bank; Top Performer In-Ground and Containers, Kansas State University.

TRUFFULA™ Pink Gomphrena pulchella
- 76-79cm (30-32") Vigor: 4
This vegetative Gomphrena has a tidier appearance than most, retaining its bushy shape without splitting when in full bloom. It thrives in heat and humidity and is drought tolerant once rooted in. Pollinators flock to its hot pink, cotton ball-shaped blooms from spring into fall. Makes an excellent cut and dried flower. Pair it with other high vigor varieties or grow it as a specimen in large containers and landscapes. New this year.

Growing Tips for TRUFFULA™
- High light and good air circulation are essential to producing a quality crop.
- Long days are required for peak blooming.
- 150-200ppm fertilizer for optimal growth.
- Grow in 4.25 Grande™ and 1.0 Royale™ containers, monocultures or in combination with other high vigor varieties.
- In growing group BC (see page 149).

Notes:
- Pinch 1–2 weeks after transplant. A second pinch may be needed when growing plants in larger containers. Paclobutrazol applied at 1-3 ppm as a drench can help shape or hold the crop, but go slowly and learn how the crop performs in your greenhouse.

AWARD WINNER – TRUFFULA™ Pink Gomphrena pulchella
8 Awards including: Top Performer, Penn State; Arboretum Approved, Dallas Arboretum; Perfect Score All Season, Michigan State University.

STRATOSPHERE™ and KARALEE® Gaura lindheimeri
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 KARALEE® and STRATOSPHERE™
- 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 149).

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

AWARD WINNERS – STRATOSPHERE™ and KARALEE® Gaura
18 Awards including: Top Performer, Pure Style; Arboretum Approved, Dallas Arboretum; Perfect Scene All Season, Michigan State University.

NEW
Annual GRACEFUL GRASSES®

Our Graceful Grasses® Collection is popular with 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.

Cultural 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 Cultural Information. There, you can search for specific culture information on 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.
Hypoestes is getting a makeover! This series of super-sized, vegetative varieties does what Snow Princess did to seed alyssum. They’re big, bushy, and won’t bolt into flower soon after planting since they were selected against flowering and seed set. Use them like you would a coleus, providing season-long color in combination containers and landscapes in sun or shade. This is one versatile plant you can easily recommend to every gardener.

HIPPO® Pink Hypoestes phyllostachya
Soft pink and green polka-dotted foliage. New this year.

HIPPO® White Hypoestes phyllostachya
Bright white and green polka-dotted foliage. New this year.

Growing Tips for HIPPO®
- Prefers warmer production temperatures; avoid chilling.
- 150-200 ppm fertilizer for optimal growth.
- Do not use irrigation frequency to control plant size. Can be run a little dry, but drying to the point of wilt will cause leaf burn and drop.
- Adapts to any light level but sharp changes in light can stress plants and damage the foliage.
- In growing group CB. (see page 149).

Notes: Prune at 1-2 weeks after transplant if needed. Treat with preventative broad spectrum fungicide; 1-2 weeks after transplant, B-Nine may be used at 1500-2500ppm every two weeks after transplant. Bonzi is also effective. Check manufacturer labels for approved rates and usage recommendations.

Graceful Grasses by mature height

<table>
<thead>
<tr>
<th>Height</th>
<th>Fiber Optic Grass</th>
<th>Toffee Twist</th>
<th>Baby Tut®</th>
<th>Fiber Optic Grass Stripus cernus</th>
<th>Tufted</th>
<th>Sky Rocket</th>
<th>Pink Tut®</th>
<th>Purple Fountain Grass</th>
<th>Blue Mohawk®</th>
<th>Crepe Tut®</th>
<th>Vertigo®</th>
</tr>
</thead>
<tbody>
<tr>
<td>244cm</td>
<td>213cm</td>
<td>183cm</td>
<td>152cm</td>
<td>122cm</td>
<td>91cm</td>
<td>61cm</td>
<td>30cm</td>
<td>26-36cm</td>
<td>10-14&quot;</td>
<td>6&quot;</td>
<td>12cm</td>
</tr>
</tbody>
</table>

AWARD WINNER – HIPPO®
55 Awards including: Top Performer, University of Guelph; Excellent Rating, University Laval; Perfect Score All Season, Michigan State University; Consumer Favorite, Ohio State; Best of Breed, NC State.
ROCKAPULCO® Impatiens walleriana

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

Growing Tips for ROCKAPULCO®
- 100–150 ppm fertilizer for optimal growth.
- Requires moderate light intensity for optimal growth.
- Keep fertility levels fairly high.
- Maintain good air circulation and foliage dry. Prolonged wet foliage may lead to bacterial leaf spotting.
- Sweet potato vines are staple items in combination containers and landscapes across the country. The exceptional genetics we offer are refined versions of old classics; a wide range of leaf colors, shapes and plant habits are available. All are selected against flowering and potato production, ensuring vigorous growth all season.

ILLUSION® and SWEET CAROLINE Ipomoea batatas

Sweet potato vines are staple items in combination containers and landscapes across the country. The exceptional genetics we offer are refined versions of old classics; a wide range of leaf colors, shapes and plant habits are available. All are selected against flowering and potato production, ensuring vigorous growth all season.

ILLUSION® (Ipomoea batatas)
- The finely textured, lacy leaves of Illusion Ipomoea are unique in the industry. The habit of these varieties tends to be very compact and dense with controlled growth that won’t overpower container combinations or take over the retail bench. They are ideal for small container production, summer galloons and mixed containers.

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”
- Grow in growing group BB (see page 149).
- In growing group CC (see page 149).
- In growing group CC (see page 149).
- For Illusions, no pinch is necessary. For Sweet Caroline varieties, pinch once, 2 weeks after liner planting.

Notes:
- No pinching needed. Watch for thrips.
- No pinching needed. Watch for thrips.

Proven Winners Ipomoea Comparison Chart

<table>
<thead>
<tr>
<th>Series name</th>
<th>Variety names</th>
<th>Distinguishing characteristics</th>
<th>Breeding goal</th>
<th>Colors in line</th>
<th>Compact habit – relative to others</th>
<th>Branching relative to others</th>
<th>Flowering</th>
<th>Leaf type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illusions®</td>
<td>Emerald Lace</td>
<td>Same as Sweet Caroline</td>
<td>Dissected foliage for new texture; compact habit</td>
<td>Light green, purple, red, or bronze</td>
<td>Compact habit</td>
<td>High</td>
<td>No – rarely, under stress</td>
<td>Usually not needed</td>
</tr>
<tr>
<td></td>
<td>Garnet Lace</td>
<td></td>
<td>Compact mounding, not trailing habit, more upright, initially; serrated leaf margin</td>
<td>Light green, purple-black</td>
<td>Compact habit</td>
<td>Medium to high</td>
<td>Occasionally under short days, low light</td>
<td>Not needed</td>
</tr>
<tr>
<td></td>
<td>Midnight Lace</td>
<td></td>
<td>Mounding habit with serrated leaf</td>
<td>Light green, purple, red</td>
<td>Compact habit</td>
<td>High</td>
<td>No – rarely, under stress</td>
<td>Usually not needed</td>
</tr>
<tr>
<td></td>
<td>Bewitched</td>
<td></td>
<td>Enhanced branching over Sweet Caroline series, different texture with heart-shaped leaves</td>
<td>Light green, purple, red</td>
<td>Moderately compact habit</td>
<td>Medium</td>
<td>No</td>
<td>Entire, combine</td>
</tr>
<tr>
<td></td>
<td>Green with Envy</td>
<td></td>
<td>Same as Sweet Caroline</td>
<td>Light green, purple, red</td>
<td>Medium to high</td>
<td>No</td>
<td>Entire, combine</td>
<td></td>
</tr>
<tr>
<td>Sweet Caroline Bewitched</td>
<td>Jet Black Lime</td>
<td>Medium, high</td>
<td>Occasionally under short days, low light</td>
<td>No – rarely, under stress</td>
<td>Usually not needed</td>
<td>Not needed</td>
<td>May be needed for holding plants and small container sizes</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Red</td>
<td></td>
<td>Enhanced branching over Sweet Caroline series, different texture with heart-shaped leaves</td>
<td>Light green, purple, red</td>
<td>Medium to high</td>
<td>No</td>
<td>Entire, combine</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Dissected foliage for new texture; compact habit</td>
<td>Light green, purple, red</td>
<td>High</td>
<td>No – rarely, under stress</td>
<td>Usually not needed</td>
<td></td>
</tr>
<tr>
<td>Sweet Caroline Sweetheart</td>
<td>Kiwi</td>
<td>Medium to high</td>
<td>Occasionally under short days, low light</td>
<td>No – rarely, under stress</td>
<td>Usually not needed</td>
<td>Not needed</td>
<td>May be needed for holding plants and small container sizes</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Light Green Raven</td>
<td>High</td>
<td>Enhanced branching and reduced internode size, better branching and reduced storage root formation; novel colors</td>
<td>Light green, purple, red, variegated dark green, purple, bronze, red</td>
<td>High</td>
<td>No – rarely, under stress</td>
<td>Usually not needed</td>
<td></td>
</tr>
</tbody>
</table>

AWARD WINNERS
- ILLUSION® (Ipomoea batatas)
- SWEET CAROLINE (Ipomoea batatas)

Sweet Caroline varieties, pinch once, 2 weeks after liner planting.
ILLUSION® and SWEET CAROLINE *Ipomoea batatas*

**Sweet Caroline Sweetheart Lime**
*Ipomoea batatas* 'NCORNSP-019SCSHLM' USPP28318 CanPBRAF

**Sweet Caroline Red**
*Ipomoea batatas* USPP17483 Can2976

**Illusion® Midnight Lace**
*Ipomoea batatas* 'NCORNSP011MNLC' USPP21743 Can4161

**Illusion® Emerald Lace**
*Ipomoea batatas* 'NCORNSP012EMLC' USPP21744 Can4162

**Illusion® Garnet Lace**
*Ipomoea batatas* 'NCORNSP013GNLC' USPP23612 Can4537

**Sweet Caroline Bewitched GREEN WITH ENVY™**
*Ipomoea batatas* 'NCORNSP-020BWGWE' USPP19147 CanPBRAF

**Sweet Caroline Bewitched AFTER MIDNIGHT™**
*Ipomoea batatas* 'NCORNSP-020BWAM' USPP19147 CanPBRAF

**Sweet Caroline Sweetheart JET BLACK™**
*Ipomoea batatas* 'NCORNSP-021SHJB' USPP17483 CanPBRAF

**Sweet Caroline Kiwi**
*Ipomoea batatas* **NEW**

**Top 50**

**Sweet Caroline Raven Improved**
*Ipomoea batatas* **NEW**

**Sweet Caroline Light Green**
*Ipomoea batatas* USPP15028 Can2975

**Sweet Caroline Sweetheart Red**
*Ipomoea batatas* USPP19013 Can2904
**AWARD WINNER - LUSCIOUS® Lantana**

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

**Variety Name** | **Vigor** | **Habit** | **Height** | **In Combos**
--- | --- | --- | --- | ---
Bananarama™ | 3 | Mounding | 46-76cm (18-30”) | Yes, with vigorous companions
Berry Blend™ | 4 | Upright | 46-76cm (18-30”) | Yes, with vigorous companions
Citrus Blend™ Improved | 4 | Upright | 51-76cm (20-30”) | Yes, with vigorous companions
Grape | 2 | Trailing | 25-36cm (10-14”) | Yes, with any
Lemonade | 3 | Mounding | 61-91cm (24-36”) | Yes, with any
Marmalade | 3 | Mounding | 80-127cm (32-50”) | Yes, with vigorous companions
Pinkberry Blend™ | 4 | Mounding | 51-61cm (20-24”) | Yes, with vigorous companions
Royale Cosmo | 2 | Upright Globe | 30-66cm (12-26”) | Due to habit, mix with trailing plants
Royale Pina Colada | 2 | Upright Globe | 30-66cm (12-26”) | Due to habit, mix with trailing plants

**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.
- 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.

**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.

Choose Luscious Royale varieties for their smaller size that fits easily into any container as a monoculture or paired with other medium vigor varieties. Choose standard Luscious varieties for full-sized, mega flower power. All our Lantanas set little to no seed and are daylength neutral.

One of the most reliable recommendations you can make for customers looking for sun, heat and drought tolerant flowers that attract pollinators. Fragrant Luscious Lantana are rock stars in the landscape and add season-long color to window boxes, patio pots and hanging baskets.

- 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 149).

**LUSCIOUS® Marmalade**
**LUSCIOUS® Lemonade**
**LUSCIOUS® Berry Blend™**
**LUSCIOUS® Cherry Blend™**
**LUSCIOUS® Pinkberry Blend™**
**LUSCIOUS® Grape**

**Luscious Comparison Chart**
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.

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 cool 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.
- 150-200 ppm fertilizer for optimum growth.
- In growing group AB (see page 149).

Notes:
- 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.

Isotoma axillaris

**BETH’S BLUE ®**

AWARD WINNER – BETH’S BLUE®
Isotoma
18 Awards including: Best Performer, Dallas Arboretum; Best of Breed, JC Raulston Arboretum

Easily adaptable for containers and landscapes, this versatile plant thrives in sun and shade. Its cool silver foliage complements the pretty pink blossoms that dot the trailing stems.

Growing Tips for PINK CHABLIS®
- Can be produced under high or low light levels.
- 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 149).

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

Lamium maculatum

**PINK CHABLIS ®**

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

Bred to take the summer heat better than typical lobelias, these varieties are compact yet full, semi-upright plants covered in true blue, violet 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 149).

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.

Lobelia erinus

**LAGUNA ®**

AWARD WINNER – LAGUNA®
Lobelia
18 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; Gold Medal, University of Virginias Master Gardeners, Top Performer, Longwood Gardens; Consumer Choice, University of Florida - Fort Lauderdale

Top 50

Brieved to take the summer heat better than typical lobelias, these varieties are compact yet full, semi-upright plants covered in true blue, violet 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 149).

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.
Our collection of vegetative, heat tolerant 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 pair well with medium-vigor plants. All form trailing mounds of fragrant blooms from spring through fall without deadheading.

Growing Tips for PRINCESS AND KNIGHT

- Requires high light in production.
- Take care not to hang above plants that are sensitive to petal drop since Lobularia tends to 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 149).

**AWARD WINNERS – Princess and Knight Lobularia**
266 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 of Laval; Top Performer, University of Florida - Fort Lauderdale; Top Performer, Kansas State University; Top Performer, Devonian Botanic Garden; Top Performer, Cornell University

**Comparison Chart**

<table>
<thead>
<tr>
<th>Variety name</th>
<th>Vigor</th>
<th>Color</th>
<th>Foliage</th>
<th>In Combi</th>
</tr>
</thead>
<tbody>
<tr>
<td>Snow Princess®</td>
<td>4</td>
<td>White</td>
<td>Dark green</td>
<td>Only with the most vigorous companion plants</td>
</tr>
<tr>
<td>Blushing Princess®</td>
<td>4</td>
<td>White</td>
<td>Medium green</td>
<td>With vigorous companion plants</td>
</tr>
<tr>
<td>Frosty Knight®</td>
<td>3</td>
<td>White</td>
<td>Variegated cream and green</td>
<td>With moderately vigorous companion plants, Frosty Knight plays well with others.</td>
</tr>
<tr>
<td>White Knight®</td>
<td>3</td>
<td>White</td>
<td>Medium green</td>
<td>With half the vigor of Snow Princess, it is a better companion for less vigorous plants</td>
</tr>
<tr>
<td>Dark Knight™</td>
<td>3</td>
<td>Purple</td>
<td>Medium green</td>
<td>Vigor between White Knight® and Blushing Princess®, it is a better companion for less vigorous plants</td>
</tr>
</tbody>
</table>

**Growing Tips for GOLDDUST®**

- Requires high light in production.
- 150-200 ppm fertilizer for optimal growth.
- Proper water management is critical.
- In growing group CB (see page 149).

**AWARD WINNER – GOLDDUST® Mecardonia**
54 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.

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.

**GoldDust® Mecardonia**

- 5-13cm (2-5”) Vigor: 2
- Requires high light in production.
- 150-200 ppm fertilizer for optimal growth.
- Proper water management is critical.
- In growing group CB (see page 149).

Notes: No pinch necessary. For hanging baskets and containers larger than 6”, trim around container edge just prior to hanging.
This is the collection that epitomizes the art and science of plant breeding. Very showy and dramatic in borders, hanging baskets, and containers. All varieties have a full, attractive habit and are ideal for early spring. Sunsatia are exceptionally cold tolerant and incredibly colorful.

**Growing Tips for SUNSATIA®**
- Grow these plants on the dry side.
- Preventive fungicides are recommended 1 week after transplant.
- High light is required in production.
- Air circulation, proper water management, and good soil porosity are critical.
- Use well-drained media only.
- Requires 150-200 ppm fertilizer for optimal growth.
- In growing group AA (see page 149).

**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. Cold temperatures will also control growth. Sensitive to pythium, phytophthora, and thielaviopsis. Rhapsody and other copper-based fungicides are effective as a preventative application.

**AWARD WINNER – SUNSATIA® Nemesia**
- 10 Awards including: Excellent Rating, Glovis Trials; Consumer Top Choice, Cornell-Long Island

**Vigor:** 2

Many early spring programs owe their success to nemesia. But their value as mid-season crops is just as important. Frost-tolerant and easy to grow, these snapdragon-like beauties also sport well-branched stems and attractive, medium green foliage.

**Growing Tips for Nemesia**
- Preventive fungicides are recommended one week after transplant.
- Florel® at 500 ppm is effective at increasing branching.
- Sunmagic® at 5 ppm and cold temperatures are effective at controlling growth.
- Requires 150-200 ppm fertilizer for optimal growth.
- In growing group AA (see page 149).

**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.
Highly recommended alternatives to *I. walleriana*, New Guinea Impatiens have a similar look but with larger, more brilliantly colored blooms that appear from spring through summer without deadheading. All are incredibly versatile, thriving in monoculture and combination containers as well as in landscapes. They are ideal for 4.25 Grande™ and 1.0 Royale™ container production.

**Growth Tips for INFINITY®**
- Preventive fungicides are recommended one week after transplant.
- Sensitive to high-soluble salts; use 100-150 ppm fertilizer.
- Light shade is optimal for best growth.
- Aggressive scouting and treatment program for thrips are recommended for INSV control. Do not use Medalion® due to severe PGR effect on NGIs.
- Be sure not to overwater while plants are still rooting to the container edge.
- Growing at too cool of a temperature can cause purpling of the foliage and the stunting of growth.
- Yellow foliage is caused by drying the plant down past wilt stage.
- In growing group CC (see page 148).

**AWARD WINNERS – INFINITY® New Guinea Impatiens**
- 50 Awards including: Excellent Rating, Disney Trials; One of the Best, Penn State; Top Performer, University of Illinois; Top Performer, Colorado State University

### Infinity® series

<table>
<thead>
<tr>
<th>Variety</th>
<th>Fototag</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFINITY® Blushing Cherry</td>
<td>USPP16108</td>
<td>Preventive fungicides recommended one week after transplant.</td>
</tr>
<tr>
<td>INFINITY® Blushing Lilac</td>
<td>USPP16146</td>
<td>Sensitive to high-soluble salts; use 100-150 ppm fertilizer.</td>
</tr>
<tr>
<td>INFINITY® Cherry Red</td>
<td>USPP16112</td>
<td>Light shade is optimal for best growth.</td>
</tr>
<tr>
<td>INFINITY® Dark Pink</td>
<td>USPP16472</td>
<td>Aggressive scouting and treatment program for thrips are recommended for INSV control. Do not use Medalion® due to severe PGR effect on NGIs.</td>
</tr>
<tr>
<td>INFINITY® Disney Trials</td>
<td></td>
<td>Be sure not to overwater while plants are still rooting to the container edge.</td>
</tr>
<tr>
<td>INFINITY® Electric Purple</td>
<td>USPP16234</td>
<td>Growing at too cool of a temperature can cause purpling of the foliage and the stunting of growth.</td>
</tr>
<tr>
<td>INFINITY® Lavender</td>
<td>USPP16132</td>
<td>Yellow foliage is caused by drying the plant down past wilt stage.</td>
</tr>
<tr>
<td>INFINITY® Light Purple</td>
<td>USPP16227</td>
<td>In growing group CC (see page 148).</td>
</tr>
<tr>
<td>INFINITY® Blushing Lilac</td>
<td>USPP16146</td>
<td>Preventive fungicides recommended one week after transplant.</td>
</tr>
<tr>
<td>INFINITY® Cherry Red</td>
<td>USPP16112</td>
<td>Sensitive to high-soluble salts; use 100-150 ppm fertilizer.</td>
</tr>
<tr>
<td>INFINITY® Electric Purple</td>
<td>USPP16234</td>
<td>Light shade is optimal for best growth.</td>
</tr>
<tr>
<td>INFINITY® Cherry Red</td>
<td>USPP16112</td>
<td>Aggressive scouting and treatment program for thrips are recommended for INSV control. Do not use Medalion® due to severe PGR effect on NGIs.</td>
</tr>
<tr>
<td>INFINITY® Dark Pink</td>
<td>USPP16472</td>
<td>Be sure not to overwater while plants are still rooting to the container edge.</td>
</tr>
<tr>
<td>INFINITY® Electric Purple</td>
<td>USPP16234</td>
<td>Growing at too cool of a temperature can cause purpling of the foliage and the stunting of growth.</td>
</tr>
<tr>
<td>INFINITY® Pink</td>
<td>USPP16419</td>
<td>Yellow foliage is caused by drying the plant down past wilt stage.</td>
</tr>
<tr>
<td>INFINITY® Pink Frost</td>
<td>USPP20938</td>
<td>In growing group CC (see page 148).</td>
</tr>
<tr>
<td>INFINITY® White</td>
<td>USPP20984</td>
<td>Preventive fungicides recommended one week after transplant.</td>
</tr>
<tr>
<td>INFINITY® Red</td>
<td>USPP23277</td>
<td>Sensitive to high-soluble salts; use 100-150 ppm fertilizer.</td>
</tr>
<tr>
<td>INFINITY® Light Purple</td>
<td>USPP16227</td>
<td>Light shade is optimal for best growth.</td>
</tr>
<tr>
<td>INFINITY® Blushing Lilac</td>
<td>USPP16146</td>
<td>Aggressive scouting and treatment program for thrips are recommended for INSV control. Do not use Medalion® due to severe PGR effect on NGIs.</td>
</tr>
<tr>
<td>INFINITY® Cherry Red</td>
<td>USPP16112</td>
<td>Be sure not to overwater while plants are still rooting to the container edge.</td>
</tr>
<tr>
<td>INFINITY® Electric Purple</td>
<td>USPP16234</td>
<td>Growing at too cool of a temperature can cause purpling of the foliage and the stunting of growth.</td>
</tr>
<tr>
<td>INFINITY® Pink</td>
<td>USPP16419</td>
<td>Yellow foliage is caused by drying the plant down past wilt stage.</td>
</tr>
<tr>
<td>INFINITY® Pink Frost</td>
<td>USPP20938</td>
<td>In growing group CC (see page 148).</td>
</tr>
<tr>
<td>INFINITY® White</td>
<td>USPP20984</td>
<td>Preventive fungicides recommended one week after transplant.</td>
</tr>
<tr>
<td>INFINITY® Red</td>
<td>USPP23277</td>
<td>Sensitive to high-soluble salts; use 100-150 ppm fertilizer.</td>
</tr>
<tr>
<td>INFINITY® Light Purple</td>
<td>USPP16227</td>
<td>Light shade is optimal for best growth.</td>
</tr>
<tr>
<td>INFINITY® Blushing Lilac</td>
<td>USPP16146</td>
<td>Aggressive scouting and treatment program for thrips are recommended for INSV control. Do not use Medalion® due to severe PGR effect on NGIs.</td>
</tr>
<tr>
<td>INFINITY® Cherry Red</td>
<td>USPP16112</td>
<td>Be sure not to overwater while plants are still rooting to the container edge.</td>
</tr>
<tr>
<td>INFINITY® Electric Purple</td>
<td>USPP16234</td>
<td>Growing at too cool of a temperature can cause purpling of the foliage and the stunting of growth.</td>
</tr>
</tbody>
</table>
Growing Tips for BRIGHT LIGHTS™

- Treat with a preventative broad spectrum fungicidal drench 1-2 weeks after transplant.
- Good air circulation, control of humidity, and good sanitation are critical to crop success.
- Cooler temperatures and high light in production are essential for spring bud set and branching.
- Use 150-200 ppm fertilizer.
- In growing group AB (see page 149).

Notes: Removing the buds and flowers at transplant isn’t necessary but can be beneficial.

Growing Tips for SOPRANO® and SYMPHONY

- Pinch at transplant only if necessary. If you pinch, use a spray application of fungicide immediately as a preventative measure.
- Requires high light in production.
- Warm and slightly dry conditions after transplanting speeds rooting and growth.
- Use 150-200ppm fertilizer.
- PGRs are not recommended.
- Symphony may be finished outside to tone plants; Soprano is not recommended for finishing outside.
- In growing group AB (see page 149).

Growners who are familiar with Osteospermum are well-versed in Soprano, the classic series with improved heat tolerance. And gardeners love their daisies too, finding these purple blooms (the #1 favorite color of gardeners) hard to resist each spring. They are ideal in 4.25 Grande™ containers for spring and fall sales.

For nearly twenty years, Symphony has remained our top-selling Osteospermum series. These interspecific hybrids are virtually sterile so they flower profusely, even in summer. The cheerful yellow and orange blooms are accented by a tiny violet eye that makes the colors really pop. Grow in 4.25 Grande™ containers and watch them fly out the door in spring.
CHARMED Wine

Oxalis regnellii

15-41cm (6-16”)

AWARD WINNER – CHARMED® Wine

Oxalis regnellii

2 Awards: Arboretum Approved, Dallas Arboretum; Best of Species, Penn State

Growing Tips for CHARMED® Wine

- Prefers warmer production temperatures.
- Warm and slightly dry conditions after transplanting speeds root in and growth.
- Light shade is best for optimal growth.
- Shear back if petioles become too long due to low light conditions.
- Use 150-200 ppm fertilizer for optimal growth.
- In growing group BB (see page 149).

Notes:

To schedule for St. Patrick’s Day, plan on a 4-6 week crop, and supplemental lighting may be needed to keep plant compact for Northern growers. Pinching not needed. PGRs not needed.

BOLDLY® Pelargonium

Geraniums are a consumer favorite, and the blooms of BOLDLY already have a dedicated and strong following among gardeners. That popularity has grown since this interspecific cross between zonal and ivy geraniums joined the Proven Winners® brand. With more zonal traits than ivy traits, exceptional heat tolerance, and a mounded habit, BOLDLY offers beauty and strong garden performance.

Growing Tips for BOLDLY®

- 200-250 ppm fertilizer for optimal growth.
- Requires high light in production.
- Prunings should not be necessary. Apply Cycocel at 750 to 1,300 ppm as needed.
- Apply 350 ppm of Florel® once or twice. First application should be applied 10 to 14 days after transplant. Repeat 5 to 8 days later, if desired. Applications should be stopped 6 to 7 weeks before desired sell date.
- Geraniums are sensitive to iron and magnesium toxicity; soil pH maintained above 6.0 will limit problems.
- In growing group BC (see page 149).

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 good sanitation practices are critical.
TIMELESS™ Pelargonium

Timeless is a new name but has the same great genetics as its forerunner, Caliente, which is already a popular plant with consumers. Sales have grown because this interspecific cross between zonal and ivy geraniums joined the Proven Winners brand. With more ivy traits than zonal traits, exceptional heat tolerance, and a vibrant collection of colors, Timeless offers beauty and strong garden performance. Timeless Pink and Timeless Fire have a more cascading, very well-branched habit while the others in this series are more mounded and compact.

Key account customers can purchase and propagate cuttings of Timeless™ on your own. Contact your propagator for additional information.

**AWARD WINNER – TIMELESS™ Pelargonium**

76 Awards including: Best of Breed, North Carolina State; Top Performer, Kansas State; Summer Survivor, Texas A&M

Growing Tips for TIMELESS™

- 200-250 ppm fertilizer for optimal growth.
- Requires high light in production.
- Pinching should not be necessary. Apply Cycozyme® at 750 to 1,000 ppm as needed.
- Apply 350 ppm of Floroxone® once or twice. First application should be applied 10 to 14 days after transplant. Repeat 5 to 8 days later, if desired. Applications should be stopped 6 to 7 weeks before desired sell date.
- Geraniums are sensitive to iron and magnesium toxicity; soil pH maintained above 6.0 will limit problems.
- In growing group BC (see page 149).

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 good sanitation practices are critical.

**Supertunia® Petunia**

For incredible color and season-long performance, choose Supertunia. Whether you’re using them to create extraordinary hanging baskets, upright combos or in landscapes, you can expect an exceptional show of color from planting until frost. Supertunias are self-cleaning — no deadheading necessary — and grow with remarkable vigor, petal substance and disease resistance. You won’t find a more outstanding petunia.

**AWARD WINNERS – SUPERTUNIA®**

1385 Awards including: Top Performer, Missouri Botanical Garden; Exceptional Performer, University of Florida; Excellent Rating, Bowerman Botanical Garden, Milwaukie, Wisconsin; Outstanding Rating, Disney Trials, Plant of the Year, Millennia; Best New Variety, Colorado State University; Top Performer, Oregon State University

Growing Tips for SUPERTUNIA®

- Requires high light in production.
- 250+ ppm fertilizer. Watch pH and EC levels.
- All “veined” petunias are more sensitive to cold. Keep above 50º F (10º C).
- Day-length neutral varieties need less PGRs. Cold temperatures also control growth.
- Yellow growth tips often indicate an iron shortage in response to too high pH.
- Black Cherry has above average vigor and flowers very early. Grow as bright as possible, space plants well, provide good air movement and avoid high humidity. Grow cool with 65-68º F days and 55-60º F nights. Regular applications of PGRs will help to keep plants more compact and will hold them longer.
- In growing group AA (see page 149).

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. 10-15 ppm Sumagic® spray at 1-3 ppm Bonzi® drench are effective at controlling growth. Apply as needed. Supertunia Minis may require higher rates of PGRs.
There’s a type of Supertunia to suit every gardening need. For a petunia that goes anywhere from landscapes to containers, choose the large-flowered, mounding Supertunia. Choose Supertunia Trailing for a bold splash of trailing color in premium combinations and use Supertunia Charms for early color in hanging baskets and landscapes.
Growers need to choose from these options when ordering Supertunia® Picasso in Purple.®

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

1. Order the traditional white Proven Winners Grande™ branded container for each liner
2. Order a Supertunia Picasso hanging basket tag.

Orders for liners placed without orders for container/tag will not ship.
The best petunia for landscapes. Hands down.

Supertunia Vista varieties deliver an outstanding performance over the entire season, lasting an extra month in southern states and well into fall in moderate climates. They are bred to flower earlier, grow taller and wider, and grow more vigorously than other Supertunia. Vista Bubblegum has become a legend in its own time, and the other Vistas are well-matched too.

SUPERTUNIA VISTA® Paradise Petunia Petunia ‘USTUNI60-01’ USPP20903 Can3866
A color expansion for the series, this watermelon pink selection comes very close to matching Supertunia Vista Bubblegum in vigor and habit. Glowing watermelon pink blossoms blanket the wide spreading foliage from spring through fall without deadheading. New this year.

Timing Habit Recommended Use Sun-Shade Tolerance

<table>
<thead>
<tr>
<th>Variety</th>
<th>All Season</th>
<th>Early Season - Summer</th>
<th>Mid Season - Summer</th>
<th>Mid Season</th>
<th>Giant Pink</th>
<th>Charm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Supertunia Vista®</strong></td>
<td>Mounding 2’</td>
<td>Mounding 4’</td>
<td>Trailing 4’</td>
<td>Trailing 6’</td>
<td>Vigorous 6’</td>
<td>Mounding 12”</td>
</tr>
<tr>
<td><strong>Supertunia®</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Supertunia®</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SUPERTUNIA® Paradise Petunia
Petunia ‘USTUNI60-01’ USPP20903 Can3866

A color expansion for the series, this watermelon pink selection comes very close to matching Supertunia Vista Bubblegum in vigor and habit. Glowing watermelon pink blossoms blanket the wide spreading foliage from spring through fall without deadheading. New this year.

Timing Habit Recommended Use Sun-Shade Tolerance

<table>
<thead>
<tr>
<th>Variety</th>
<th>All Season</th>
<th>Early Season - Summer</th>
<th>Mid Season - Summer</th>
<th>Mid Season</th>
<th>Giant Pink</th>
<th>Charm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Supertunia Vista®</strong></td>
<td>Mounding 2’</td>
<td>Mounding 4’</td>
<td>Trailing 4’</td>
<td>Trailing 6’</td>
<td>Vigorous 6’</td>
<td>Mounding 12”</td>
</tr>
<tr>
<td><strong>Supertunia®</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
There is a 8-week variance from earliest-flowering to latest-flowering varieties.

<table>
<thead>
<tr>
<th>Week</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Early-Flowering Varieties</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Daybreak Charm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Mulberry Charm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Picasso in Purple®</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Royal Magenta™</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® White Charm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Bright Pink</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Silver Veined</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Bermuda Beach ®</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Silver</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Lavender Skies'</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Fuchsia</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® White</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® ‘Lavender Skies’</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Picasso in Purple®</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Indigo Charm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Sangria Charm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Royal Magenta™</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Black Cherry™</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Trailing Blue Veined</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® ‘Lavender Skies’</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Trailing Silver</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® White</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Blueberry</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Priscilla®</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® ‘Lavender Skies’</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Fuchsia</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® White</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Silver</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Trailing Blue Veined</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Trailing Bright Pink</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supertunia® Trailing Blue</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Top-selling Supertunia

Supertunia continue to be our most popular line of plants – here’s how they rank in terms of liners sold in Canada.

- **Supertunia® Trailing Blue**
- **Supertunia® Bordeaux™**
- **Supertunia Vista® Bubblegum®**
- **Supertunia Vista® Fuchsia**
- **Supertunia® ‘Lavender Skies’**
- **Supertunia® Trailing Strawberry Pink Veined**
- **Supertunia® Trailing Bright Pink**
- **Supertunia® Trailing Silver**
- **Supertunia® Giant Pink**
- **Supertunia® Trailing Blue Veined**
- **Supertunia® Trailing Bright Pink**
- **Supertunia® Morning Glory Charm**

**Mid-Flowering Varieties**

- **Supertunia® Hot Pink Charm**
- **Supertunia® Blue Skies**
- **Supertunia® Morning Glory Charm**
- **Supertunia® White**
- **Supertunia® Luminosa®**
- **Supertunia Vista® Fuchsia**
- **Supertunia® White**
- **Supertunia® Trailing Purple**
- **Supertunia® Bordeaux ™**
- **Supertunia® Sangria Charm**
- **Supertunia® Royal Velvet®**
- **Supertunia® Really Red**
- **Supertunia® Trailing Silver**
- **Supertunia® Giant Pink**
- **Supertunia® ‘Lavender Skies’**
- **Supertunia® Trailing Bright Pink**
- **Supertunia® Trailing Blue**
- **Supertunia® Trailing ‘Lavender Skies’**
- **Supertunia® Trailing Silver**
- **Supertunia® Giant Pink**
- **Supertunia® ‘Lavender Skies’**

**Later-Flowering Varieties**

- **Supertunia® Trailing Blue Veined**
- **Supertunia® Trailing Purple**
- **Supertunia® Priscilla®**
- **Supertunia® Trailing Strawberry Pink Veined**
- **Supertunia® Trailing Bright Pink**
- **Supertunia® Trailing Blue**

**AWARD WINNER – INTENSIA®**

- Florida; Best of Species, Penn State
- Best of the Best, University of Georgia; Exceptional Performer, University of Florida; Best of Species, Penn State

**Growing Tips for INTENSIA®**

- Requires heat and high light for optimal growth.
- Order for mid-spring production.
- Proper air movement, water management, and good soil porosity are critical.
- Water lightly at planting. Grow warm until roots are established and then grow cool.
- 200-300 ppm fertilizer. When actively growing, increased fertilizer applications may be necessary.
- Can be finished for prime spring season in mixed containers. Mono baskets and small containers can be produced from mid-spring on, if grown properly.
- A preventative fungicidal drench should be done one week after transplant.

**In growing group AB (see page 149).**

**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 Sunmagic® is effective. Cool temperatures are also an effective growth regulator.

**Supertunia Vista®**

- **Supertunia® Trailing Strawberry Pink Veined**
- **Supertunia® Trailing Bright Pink**
- **Supertunia® Morning Glory Charm**

Their heat, drought, and humidity tolerance, sweet fragrance, and rich colors have earned this series a stack of awards – and a special place in the hearts of gardeners throughout the Midwest and South. Intensia grow from early spring through autumn and are wonderful mid-height plants for your premium hanging baskets and containers.

**Have You Had Trouble Growing Intensia?**

Intensia prefers being dry, and normal greenhouse procedure is to never let the plant dry out. So a good rule of thumb with this plant is that when you think it’s ready to be watered, wait a day.

- **Supertunia® Morning Glory Charm**
- **Supertunia® Trailing Bright Pink**
- **Supertunia® Trailing Silver**
- **Supertunia® Trailing Blue**
- **Supertunia® Valentine®**
- **Supertunia® Trailing Rose Veined**
- **Supertunia® Hot Pink Charm**
- **Supertunia® Giant Pink**
- **Supertunia® Trailing Silver**
- **Supertunia® Mulberry Charm**
- **Supertunia® Sangria Charm**
- **Supertunia® Indigo Charm**
- **Supertunia® Picasso in Purple®**
- **Supertunia® ‘Lavender Skies’**
- **Supertunia® Trailing Bright Pink**
- **Supertunia® Morning Glory Charm**

**Vigor: 2**

**Their heat, drought, and humidity tolerance, sweet fragrance, and rich colors have earned this series a stack of awards – and a special place in the hearts of gardeners throughout the Midwest and South. Intensia grow from early spring through autumn and are wonderful mid-height plants for your premium hanging baskets and containers.**

**Supertunia continue to be our most popular line of plants – here’s how they rank in terms of liners sold in Canada.**

- **Supertunia® Trailing Blue**
- **Supertunia® Bordeaux™**
- **Supertunia Vista® Bubblegum®**
- **Supertunia Vista® Fuchsia**
- **Supertunia® ‘Lavender Skies’**
- **Supertunia® Trailing Strawberry Pink Veined**
- **Supertunia® Trailing Bright Pink**
- **Supertunia® Trailing Silver**
- **Supertunia® Giant Pink**
- **Supertunia® Trailing Blue Veined**
- **Supertunia® Trailing Bright Pink**
- **Supertunia® Morning Glory Charm**

**Growing Tips for INTENSIA®**

- Requires heat and high light for optimal growth.
- Order for mid-spring production.
- Proper air movement, water management, and good soil porosity are critical.
- Water lightly at planting. Grow warm until roots are established and then grow cool.
- 200-300 ppm fertilizer. When actively growing, increased fertilizer applications may be necessary.
- Can be finished for prime spring season in mixed containers. Mono baskets and small containers can be produced from mid-spring on, if grown properly.
- A preventative fungicidal drench should be done one week after transplant.

**In growing group AB (see page 149).**

**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 Sunmagic® is effective. Cool temperatures are also an effective growth regulator.
MOJAVE® Portulaca umbraticola

Sure to be a hit in southern regions, these colorful flowering succulents bloom all summer without deadheading. The vivid blooms are a welcome sight especially in high summer when they really come into their own. Poor, dry soil is no problem for these durable beauties. Use them as trailers in hanging baskets or as an annual groundcover.

Growing Tips for MOJAVE®
- Grow on the dry side to help naturally control growth.
- 100-150 ppm fertilizer for optimum growth.
- Red leaf margins can indicate over-fertilization or extremely high light levels.
- When holding at cool temperatures, be sure to maintain temperatures no lower than 50°F to avoid leaf drop. Some red coloration on leaf margins may appear with cool temperatures. Under cool holding conditions, soil should be dry rather than moderate.
- In growing group BC (see page 149).

Notes: Pinch at 1-2 weeks after transplant if needed. 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. Good air circulation, control of humidity, and good sanitation practices are critical.

SUNBINI® Sanvitalia procumbens

With its large flowers and more uniform habit, Sunbini is fast to fill out and extra drought-tolerant. Be sure to recommend this one to your landscape customers.

Growing Tips for SUNBINI®
- High light is essential.
- 150 ppm fertilizer for optimal growth.
- Production time decreases when light and temperatures are optimal.
- Grow lean, warm, and dry for best results.
- Do not use any fungicides containing Azole, such as Banrot® and Truban®, as they will stunt the plants.
- In growing group BB (see page 149).

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. For PFRs reeled. Plants are sensitive to Sumagic® but 2500 ppm B-9 is effective if needed.

LEMON CORAL™ Sedum mexicanum

A tough as nails filler for hanging baskets, troughs, combination containers and landscapes, this beautifully textured succulent is very vigorous and drought tolerant. Its lime green to chartreuse foliage pairs well with other vigorous sun loving varieties.

Growing Tips for LEMON CORAL™
- High light levels are required in production.
- Grow in dry to lightly moist soil. Plants are heat and drought tolerant once established.
- 100 - 150 ppm fertilizer for optimum growth.
- Good air circulation, water management practices, control of humidity, and good sanitation practices are critical.
- In growing group BB (see page 149).

Notes: No pinching needed. Naturally forms a very dense mat of lime green foliage. 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 – LEMON CORAL™ Sedum
43 Awards including: Top Performer, Colorado State University; Best Drought Tolerant, Tennessee State University; Top Performer, Texas A&M
Gardeners are looking for plants to draw in pollinators and salvias work like a charm. Hummingbirds are highly attracted to the extra-large flowers of Rockin’ Deep Purple and Fuchsia, while butterflies and bees enjoy Rockin’ Playin’ the Blues. Each member of this series is unique, but all share a refined habit and strong heat tolerance. They are spectacular in the landscape and make impressive thrillers in large containers.

ROCKIN® Fuchsia Salvia

Extraordinary color breakthrough! Intense fuchsia flowers with black bracts appear on neatly compact, well-branched plants all season. Presents beautifully in containers at retail. New this year.

ROCKIN® ‘Golden Delicious’ Salvia elegans

Consider this as a heat and humidity tolerant, downy mildew resistant replacement for chartreuse coleus. Full sun yields radiant yellow foliage, more chartreuse in shade. In warm climates with long growing seasons, this short-day plant may produce fire engine red flowers in fall. New this year.

Growing Tips for ROCKIN®

- Requires high light in production.
- Good air circulation and water drainage are important. Use a well-drained soil mix.
- A routine preventative broad spectrum fungicidal spray program is encouraged.
- 150-200 ppm N. Be careful to not overfertilize. Using fertilizer high in ammonia can cause excessive vegetative growth and lack of flowers.
- Growth can be controlled using B-9 at 2,500 to 3,750 ppm.
- In growing group AB. (see page 149).

Notes for ROCKIN® PLAYIN’ THE BLUES®:

Apply growth regulators as needed for height control.

Notes for ROCKIN® Deep Purple, Fuchsia and ‘Golden Delicious’:

Compact early habit is great for container production. Pinch at 1-2 weeks after transplant if needed. Growth can be controlled using lower temperatures.

AWARD WINNERS – ROCKIN® Salvia

114 Awards including: Excellent Rating, University Laval; Top Performer, University of Guelph; Perfect Score All Season, University of Minnesota; People’s Choice, University of Georgia.
Don't be fooled by their delicate, lacy flowers and gracefully mounding/spreading habit. Fan flowers are native to the bush country of Western Australia. Constantly in flower, these combo stars also boast attractive foliage and a well-branched habit. Whirlwind Blue has fade-proof purple-blue flowers, looks great in a four-inch container, and is ideal for landscaping. Whirlwind White continues to set the standard for season-long performance and immunity to temperature extremes and tough conditions. Whirlwind Pink has been updated to match the others in the collection.

AWARD WINNERS

WHIRLWIND®  Scaevola

40 Awards including: Excellent Rating, Disney Trials; Best of the Best, University of Georgia; Top Performer, Michigan State

WHIRLWIND® Pink Scaevola aemula™ ‘USPP CanPBRAF’

Replaces Pink Wonder®. You’ll love to grow Whirlwind Pink for its greatly improved vigor and branching. It delivers a stellar season-long performance in containers and landscapes. New this year.

Growing Tips for Scaevola

- Requires high light in production.
- 150-200 ppm fertilizer.
- Prefers warmer production temperatures.
- Australian plants prefer to have little or no phosphorus added.
- Sensitive to cold temperatures but makes a great spring and summer sales item.
- In growing group BA (see page 149).

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.
- Sumagic® at 2-5 ppm has been effective at controlling growth.

AWARD WINNERS

SNOWSTORM® Sutera cordata (Bacopa)

17 Awards including: Outstanding Rating, Disney Trial; Best of the Best, University of Georgia; Early Season Top Performer, Cornell; Long Island, Top Performer, University of Minnesota-Morris; Top Performer-Containers, Biltmore

Our Sutera varieties show what happens when you start with the best genetics, then continually improve them. In hanging baskets and containers, Sutera’s glimmering, star-shaped flowers add beauty and texture, but its delicate looks are backed by durability and vigor.

Growing Tips for SNOWSTORM®

- High light in production is essential in early season. Light shade is required for summer production.
- 150-200 ppm fertilizer for optimal growth.
- You must keep Giant Snowflake under control, especially under dark weather conditions. It should be treated with 500-750 ppm of B-9.
- Treat with preventative broad spectrum fungicidal drench one week after transplant.
- In growing group BA (see page 149).

Notes:

- Pinch as needed or to shape plants. Do not allow plants to dry out as they will drop both buds and flowers causing the plants to cycle out of bloom for several weeks.

SNOWSTORM® GIANT SNOWFLAKE®

Sutera cordata ‘Danova906’ US17886 Can2861

SNOWSTORM® Pink

Sutera cordata ‘Danova982’ USPP22398

SNOWSTORM® Blue

Sutera cordata ‘G13340’ USPPAF CanPBRAF

SNOWSTORM® Snow Globe®

Sutera cordata ‘Danova780’ USPP26789 Can5264

SNOWSTORM® Blue and Pink: Vigor: 2

SNOWSTORM® Giant Snowflake® and Snow Globe®: Vigor: 3

Top 50

SNOWSTORM® GIANT SNOWFLAKE®

Sutera cordata (Bacopa)
**COLORBLAZE**®

Solenostemon scutellarioides (Coleus)

With vibrant color and season-long performance, the ColorBlaze collection of coleus is a must-have for your spring lineup. These foliage plants are bold, versatile, easy to grow, and extremely popular with gardeners. All are late-flowering varieties that hold their form throughout the season. They are tolerant of varying light conditions and are among the fastest-selling plants in any program.

**COLORBLAZE® GOLDEN DREAMS**® Solenostemon scutellarioides

Robust selection, forming a full clump of radiant gold foliage with red venation; red is more pronounced in lower light. New this year.

**COLORBLAZE® REDICULOUS**® Solenostemon scutellarioides

Replaces ColorBlaze Marooned®. Forms a robust, well-branched clump of garnet red foliage and is late to flower. New this year.

**COLORBLAZE® SEDEONA SUNSET**® Solenostemon scutellarioides

Replaces ‘Sedona’ and Keystone Kopper®. This top performer in trials features richer orange foliage and increased resistance to downy mildew. New this year.

**COLORBLAZE® TORCHLIGHT™** Solenostemon scutellarioides

Replaces Kingswood Torch. Striking burgundy leaves with a magenta patterned center develop an emerald green edge in warmer temperatures. New this year.

**Growing Tips for COLORBLAZE®**

- Establish in a warm environment. Plants subject to chilling may be stunted.
- 150-200 ppm fertilizer for optimal growth.
- One to two pinches can be used to increase branching and for shaping. For small container sizes, this may not be necessary; larger containers will probably require pinching.
- Florel® can increase branching and reduce flowering.
- Cycocel/B-9 tank mix or Sumagic® spray at 3-5 ppm will help control growth if needed.
- In growing group BC (see page 149).

---

**COLORBLAZE Comparison Chart**

<table>
<thead>
<tr>
<th>Variety</th>
<th>Height</th>
<th>Vigor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>COLORBLAZE® LIME TIME™</strong></td>
<td>51-91cm (20-36”)</td>
<td>3</td>
</tr>
<tr>
<td><strong>COLORBLAZE® Dipt in Wine</strong></td>
<td>51-91cm (20-36”)</td>
<td>4</td>
</tr>
<tr>
<td><strong>COLORBLAZE® Dark Star</strong></td>
<td>30-61cm (12-24”)</td>
<td>2</td>
</tr>
<tr>
<td><strong>COLORBLAZE® GOLDEN DREAMS™</strong></td>
<td>61-86cm (24-34”)</td>
<td>4</td>
</tr>
<tr>
<td><strong>COLORBLAZE® REDICULOUS™</strong></td>
<td>61-86cm (24-34”)</td>
<td>4</td>
</tr>
<tr>
<td><strong>COLORBLAZE® SEDONA SUNSET™</strong></td>
<td>61-86cm (24-34”)</td>
<td>4</td>
</tr>
<tr>
<td><strong>COLORBLAZE® TORCHLIGHT™</strong></td>
<td>61-86cm (24-34”)</td>
<td>4</td>
</tr>
</tbody>
</table>

---

**AWARD WINNER – COLORBLAZE® Solenostemon**

346 Awards including: Top Performer, Ohio State; Leader of the Pack, North Carolina State; Top Performer, Kansas State; Top Performer, Oregon State University; Top Performer Sun and Shade, Texas A&M
**COLORBLAZE® Royale** *Solenostemon scutellarioides* (Coleus)

For a tidier look in combinations and smaller containers, choose the more compact, tightly branched ColorBlaze Royale varieties.

**COLORBLAZE® Royal CHERRY BRANDY™** *Solenostemon scutellarioides*  

Forms a bushy, upright clump of velvety ruby red foliage that pairs well with every other color. Bred to bloom very late, extending its sales window and garden performance into fall. New this year.

**COLORBLAZE® Drop** *Solenostemon scutellarioides* (Coleus)

Exclusive to Proven Winners, these trailing varieties form a wide spreading mound of small, scalloped leaves. They are an excellent component for container recipes when paired with other vigorous plants; also makes a colorful small-scale groundcover.

**COLORBLAZE® Chocolate Drop** *Solenostemon scutellarioides*  

Deep burgundy, heart-shaped leaves with scalloped, green edges. New this year.

**COLORBLAZE® Strawberry Drop** *Solenostemon scutellarioides*  

Tricolor green, pink and yellow, scalloped heart-shaped leaves. New this year.

Easier to handle than most rambunctious Thunbergias, these more restrained selections have an increased shelf life and sales window for growers and retailers. They are easy to recommend to customers looking to create a quick screen on patio trellises and chain link fences, and are excellent climbing components for combinations paired with other vigorous varieties. Requires a trellis in Royale™ containers.

**Lemon A-PEEL® Thunbergia alata**  

Clear lemon yellow flowers with a black eye dot the bright green foliage all season. **Orange A-PEEL® Thunbergia alata**  

Vibrant orange flowers with a black eye dot the bright green foliage all season. **Tangerine Slice A-PEEL® Thunbergia alata**  

Orange and yellow bicolor flowers with a black eye dot the bright green foliage all season.
CATALINA®

Torenia

Growing Tips for CATALINA®
- Prefers warmer production temperatures; cold, wet conditions can slow growth.
- Light shade is best for optimal growth.
- 200 ppm fertilizer.
- Application of Florel® delays flowering 8-10 weeks.
- Catanilas are best for 4” production.
- In growing group CB (see page 149).

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. Should not need PGRs, as they are naturally compact.

AWARD WINNER – CATALINA®

70 Awards including: Top Pick, Dallas Arboretum; Best Old Variety, University of Tennessee; Top Performer, University of Wisconsin; Top Performer In-Ground and Containers, Kansas State University.

CATALINA® White Linen

CATALINA® Mint green Blue

CATALINA® GILDED GRAPE™

CATALINA® Pink

CATALINA® GRAPE O LUSCIOUS™

Collection Top Seller

CATALINA® Large Amethyst

CATALINA® Large Blue

Collection Top Seller

CATALINA® Large Violet

CATALINA® Large Blue

Summer Wave

SUMMER WAVE®

Torenia

Vigor: 3

Synonyms for Summer Wave varieties include fast, easy, and versatile. Great as groundcovers, fantastic in window boxes and hanging baskets, and the ideal choice as spillers in containers, their deep, dark flower colors look amazing against a background of silver or lime green foliage plants.

Growing Tips for SUMMER WAVE®
- Prefers warmer production temperatures; cold, wet conditions can slow growth.
- Light shade is best for optimal growth.
- 200 ppm fertilizer.
- Application of Florel® delays flowering 8-10 weeks.
- Best in gallons and baskets.
- In growing group CB (see page 149).

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. 10-15 Sumagic® spray is effective on Summer Wave.

AWARD WINNER – SUMMER WAVE®

22 Awards including: Exceptional Performer, University of Florida; Best of Species, Penn State; Top Performer, Missouri Botanic Garden.

SUMMER WAVE® Large Amethyst

SUMMER WAVE® Large Blue

SUMMER WAVE® Large Violet

SUMMER WAVE® Large White
Growing Tips for SUPERBENA®

- High light in production is essential.
- 150-200 ppm fertilizer.
- Preventive fungicides recommended one week after transplant.
- Low pH and severe dry down can cause iron toxicity if supplemental iron has been applied.
- In growing group BB (see page 148).

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. Growth can be controlled using lower temperatures. Although Superbena is more resistant than most, powdery mildew can be a problem in poor growing environments. A routine preventative spray program is encouraged.

Easiest SUPERBENA® to Grow –

Propagators recommend Royale varieties as the easiest Superbena to grow in a 4.25 container.

AWARD WINNER – SUPERBENA® Verbena

Selected for their robust size, exceptional mildew resistance, and larger flowers that are produced all summer without deadheading, you won’t find a better verbena than Superbena.

- SUPERBENA® Raspberry Verbena® USPPAF CanPBRAF
- Replaces Tukana® Raspberry. This improved variety has exceptional resistance to powdery mildew and bacterial blight. Large clusters of raspberry pink flowers appear earlier in spring. New this year.

- SUPERBENA® Red Verbena® USPPAF CanPBRAF
- Replaces Superbena Royale Red. Vivid true red flowers are produced earlier and more prolifically on well-branched, vigorous plants. Perfect for patriotic recipes. New this year.

- SUPERBENA® Scarlet Star Verbena® USPPAF CanPBRAF
- Replaces Tukana® Scarlet Star. This improved variety has exceptional resistance to powdery mildew and bacterial blight. Large clusters of scarlet red flowers appear earlier in spring. New this year.

- SUPERBENA® WHITEOUT™ Verbena® USPPAF CanPBRAF
- Replaces Superbena Royale Whitecap. This greatly improved selection is earlier to bloom with larger, pure white flowers and an improved habit. New this year.

NEW

- SUPERBENA® Raspberry Verbena® USPPAF CanPBRAF
- Replaces Tukana® Raspberry. This improved variety has exceptional resistance to powdery mildew and bacterial blight. Large clusters of raspberry pink flowers appear earlier in spring. New this year.

- SUPERBENA® Red Verbena® USPPAF CanPBRAF
- Replaces Superbena Royale Red. Vivid true red flowers are produced earlier and more prolifically on well-branched, vigorous plants. Perfect for patriotic recipes. New this year.

- SUPERBENA® Scarlet Star Verbena® USPPAF CanPBRAF
- Replaces Tukana® Scarlet Star. This improved variety has exceptional resistance to powdery mildew and bacterial blight. Large clusters of scarlet red flowers appear earlier in spring. New this year.

- SUPERBENA® WHITEOUT™ Verbena® USPPAF CanPBRAF
- Replaces Superbena Royale Whitecap. This greatly improved selection is earlier to bloom with larger, pure white flowers and an improved habit. New this year.

NEW
**SUPERBENA® Royale Verbena**

The upright compact habit of the Royale series makes it great for Grande™ container production, but it still becomes a vigorous, spreading plant for the consumer. Superb shelf life, yet strong garden performance make Royale varieties stand out.

**SUPERBENA SPARKLING® Verbena**

Superbena® Sparkling varieties bear large flower clusters kissed with vibrant color in the center. The blossoms completely cover the canopy of dark green, powdery mildew-resistant foliage all season without deadheading. They make excellent spillers in container recipes.

---

**Top 50**

<table>
<thead>
<tr>
<th>Superbena® Sparkling® Ruby</th>
<th>Superbena® Sparkling® Amethyst</th>
</tr>
</thead>
</table>

---

**Top-Selling Superbena®**

Here’s how they rank in terms of liners sold in Canada.

- Superbena® Violet Ice
- Superbena® Royale Peachy Keen
- Superbena® Royale Plum Wine
- Superbena® Royale Chambray
- Superbena® Dark Blue
- Superbena® Stormburst
- Superbena® Large Lilac Blue
- Superbena® Royale Cherryburst
- Superbena® Sparkling® Ruby
- Superbena® Pink Shades
- Superbena® Royale Iced Cherry
- Superbena® Sparkling® Amethyst
- Superbena® Royale Romance
- Superbena® Coral Red
- Superbena® Purple

---

**Verbenas Timing Chart**

There is a 5-week variance from earliest-flowering to latest-flowering varieties.

<table>
<thead>
<tr>
<th>Week</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Early-Flowering Varieties</td>
<td>Superbena® Sparkling® Ruby</td>
<td>Superbena® Sparkling® Amethyst</td>
<td>Superbena® Scarlet Star</td>
<td>Superbena® Plum Wine</td>
<td>Superbena® Plum Wine</td>
</tr>
<tr>
<td>Mid-Flowering Varieties</td>
<td>Superbena® Royale Romance</td>
<td>Superbena® Scarlet Star</td>
<td>Superbena® Plum Wine</td>
<td>Superbena® Plum Wine</td>
<td>Superbena® Plum Wine</td>
</tr>
<tr>
<td>Later-Flowering Varieties</td>
<td>Superbena® Stormburst</td>
<td>Superbena® Coral Red</td>
<td>Superbena® Coral Red</td>
<td>Superbena® Coral Red</td>
<td>Superbena® Coral Red</td>
</tr>
</tbody>
</table>

---

**Annuals**

Superbena® Sparkling varieties bear large flower clusters kissed with vibrant color in the center. The blossoms completely cover the canopy of dark green, powdery mildew-resistant foliage all season without deadheading. They make excellent spillers in container recipes.
Growing Tips for METEOR SHOWER®

- High light levels are required in production.
- 150-200 ppm fertilizer for optimum growth.
- Good air circulation, water management practices, control of humidity, and good sanitation practices are critical.
- This plant sets little viable seed.
- In growing group BB (see page 149).

Notes:
- Pinch at 1-2 weeks after transplant if needed. To hold a crop for later delivery, an additional pinch or trim can be applied.
- 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 – METEOR SHOWER® Verbena

31 Awards including: Top Performer, Colorado State University; Top Performer, University of Minnesota; Top Performer, University of Missouri; People’s Pick, Texas A&M.
Plants that serve a dual purpose of being ornamental and edible are wildly popular with new consumers. Stack up on these fast, easy crops of everbearing, daylength neutral strawberries. Compared to standard garden strawberries, Berried Treasure varieties have short runners, showy double flowers and sugary sweet, snack-sized berries. They are ideal for growing in patio pots but also are attractive plants for garden beds.

**Berried Treasure™ Pink** *Fragaria ananassa*  
Double, pink flowers appear alongside sweet, snack-sized berries from early summer through late summer. New this year.

**Berried Treasure™ Red** *Fragaria ananassa*  
Double, red flowers appear alongside sweet, snack-sized berries from early summer through late summer. New this year.

**Growing Tips for Berried Treasure™**  
- 150 ppm N for optimal growth.  
- Pay close attention to watering. Strawberries do not tolerate wilting and the soil must be kept moist but not soggy.  
- Bright light and cool nights are best for peak flowering and fruit set.  
- Avoid high temperatures in production. Plants should be kept below 80°F to avoid a reduction in fruit quality.  
- Watch for spider mites, especially when humidity is low. Spray both the undersides and tops of the foliage.  
- Depending on conditions, allow about four weeks from flowering to ripened fruit.  
- In growing group BC (see page 149).  

*Note:* Reduced runner formation results in a more mounding habit and more energy to put into flowers and fruit.

---

**Garden Gem®**  
*Lycopersicon esculentum*  
- Vigor: 2

**Garden Treasure**  
*Lycopersicon esculentum*  
- Vigor: 4

**How do you make a tomato that is worthy of the Proven Winners name? You work with accomplished scientist Dr. Harry Klee who has spent nearly three decades at the University of Florida researching the flavor chemistry of tomatoes. After studying 398 modern, heirloom and wild varieties, more than 500 professional taste testers declared Klee’s ‘Garden Gem’ and ‘Garden Treasure’ among the very best they had ever tasted.**

**But tasting great is only one part of the equation. Strong disease resistance and extended season yields were also top considerations in Klee’s trials. Developing and trialing these plants in the hot, humid South has resulted in heat tolerant tomatoes that fruit over an extended period. We are proud to offer these tomatoes exclusively to our grower and retail customers.**

**Garden Gem®**  
*Lycopersicon esculentum*  
- 100-150 ppm N for optimal growth.  
- A complete micronutrient balanced fertilizer is essential for best growth and flavor.  
- Most tomatoes perform well with additional calcium, or a CalMag fertilizer.  
- Avoid soil pH higher than 5.0 or micronutrient deficiencies will begin to show.  
- Though these tomatoes are disease resistant, watch for signs of virus. Wash hands before handling the crop.  
- Good air circulation is essential for pollination of flowers. Ensure good air flow through the greenhouse and keep humidity relatively low for best fruit set.  
- In growing group BA (see page 149).

**Growing Tips for Garden Gem® and Garden Treasure**  
- 100-150 ppm N for optimal growth.  
- A complete micronutrient balanced fertilizer is essential for best growth and flavor.  
- Most tomatoes perform well with additional calcium, or a CalMag fertilizer.  
- Avoid soil pH higher than 5.0 or micronutrient deficiencies will begin to show.  
- Though these tomatoes are disease resistant, watch for signs of virus. Wash hands before handling the crop.  
- Good air circulation is essential for pollination of flowers. Ensure good air flow through the greenhouse and keep humidity relatively low for best fruit set.  
- In growing group BA (see page 149).

**Garden Gem®**  
*Lycopersicon esculentum*  
- Vigor: 2

**Garden Treasure**  
*Lycopersicon esculentum*  
- Vigor: 4

**PROVEN HARVEST**

**New**

**LANDSCAPE**

**Vigor:**

**2**

**4**

**106 107**

**Garden Gem®**  
*Lycopersicon esculentum*  
- Plant height: 30-41 cm (12-16”)

**Garden Treasure**  
*Lycopersicon esculentum*  
- Plant height: 71-91 cm (28-36”)

**Garden Gem®**  
*Lycopersicon esculentum*  
- New this year.  
- Better Boy®

**Garden Treasure**  
*Lycopersicon esculentum*  
- New this year.  
- Better Boy®
AMAZEL Basil Ocimum

This is truly a game-changing plant – the first downy mildew-resistant variety of Italian sweet basil. If that weren’t reason enough to grow it, this vegetative selection is also quick to mature, up to three weeks faster than post-transplant seed-produced varieties. Once it reaches harvestable size, it remains in a vegetative state longer and sets sterile seed. Vigorous, large, well-branched plants produce a high yield. It’s time to make the switch from the old, disease-prone varieties to Amazel. You’ll never look back! New this year.

Growing Tips for AMAZEL® Basil
- 150-200 ppm N for optimal growth.
- Pinch floral buds during early plant establishment to promote vegetative growth.
- Grow under high light conditions with good air circulation.
- Avoid temperatures below 40°F.
- Good water management practices are critical to healthy growth; avoid late day overhead watering.
- Employ good sanitation practices including keeping the greenhouse clean, eliminating weeds and debris, keeping hose ends off the floor, and disinfecting equipment as often as possible.
- Scout for thrips and botrytis.
- In growing group BC (see page 149).

Meet the new Amazel® Basil Proven Package.
Designed to tell the story behind this unique new basil, this specialty container and label is required for all Amazel Basil liners. Orders for liners placed without orders for this Proven Package will not ship.

Don’t Forget the POP!
Distinguish the new Proven Harvest product line in your merchandising with this specially designed POP signage. Large diecut signs, benchtape and more will be ready to ship to Canada in time for 2019 sales.

(Images of plants and containers)

Meet the new Amazel® Basil Proven Package.

(Proven Winners logo)
Perennial Collection
Growing Tips for DOLCE®

- For best foliage coloration, avoid scorching light.
- Needs to 100-150 ppm N constant liquid feed and light shade for optimal growth.
- Botrytis can be a problem under cold, wet, low-light conditions.

Additional Culture Information for DOLCE®

- pH/EC: 6.0 - 6.5 / 1.5 - 2.5 pour-through method
- Rooting Out Temperature: 55-60º F (12-16° C)
- Growing Temperature: 55-65º F (12-18 ° C)
- Holding Temperature: 40-50º F (4 -10° C) outdoors
- Water Requirements: Moderate
- When to Plant: Late Summer to Late Spring
- Finish Times in Weeks: 72s - 6/’Gallon: 5-6 wks or 6”/Gallon: 7 -9 wks
- Spring Outdoor Finish: Last to go outside
- Notes: No pinching or growth regulators needed. Finished spring plants can be moved outside to take advantage of cool temperatures for holding purposes and to allow foliage color to deepen.

Recommended Container: Premium 1-Gallon
Looking for larger, more vigorous varieties of coral bells that thrive in the landscape and very large containers? Primo™ Heucheras are an ideal choice. Their H. villosa parentage makes them naturally robust with good heat and humidity tolerance. Choose from a range of colorful options for sun and shade.

**Primo™ Black Pearl** Heuchera®

The darkest Heuchera we’ve seen. Shiny jet black, large leaves measure up to 4” across, becoming ruffled as they mature and retaining their color even in full sun. White flowers with pink calyces appear in midsummer on vernalized plants.

**Primo™ Mahogany Monster** Heuchera®

A color expansion to the Primo line. This super-sized Heuchera forms a robust clump of huge, glossy, mahogany red leaves. Creamy white flowers appear on exceptionally thick scapes in midsummer. New this year.

**Primo™ Peachberry Ice** Heuchera®

A color expansion to the Primo line. The best we’ve seen in this color class. Leaves emerge apricot with a silver overlay in spring. Leaves expand and take on an intense apricot blush coloration in summer. Robust habit; fills containers fully and is stunning in landscapes. New this year.

**Primo™ Pretty Pistachio** Heuchera®

The total package, offering bold chartreuse to lime green foliage and large clusters of pink flowers which appear continuously from midsummer to early fall. Flowers age to raspberry pink and dry in place on the stems.

### Growing Tips for Primo™

- For best foliage coloration, avoid scorching light.
- Needs to 100-150 ppm N constant liquid feed and light shade for optimal growth.
- Botrytis can be a problem under cold, wet, low-light conditions.

### Additional Culture Information for Primo™

- **pH/EC:** 6.0 - 6.5/1.5 - 2.5 pour-through method
- **Rooting Out Temperature:** 55-60°F (12-16° C)
- **Growing Temperature:** 59-60°F (15-16° C)
- **Water Requirements:** Moderate
- **Finish Time in Weeks:** 72s - 4-5': 5-6 wks or 6”/Gallon: 7-9 wks
  - 20s - 6”/Gallon: 6-8 wks
- **Spring Outdoor Finish:** Last to go outside
- **Notes:** No pinching or growth regulators needed. Finished spring plants can be moved outside to take advantage of cool temperatures for holding purposes and to allow foliage color to deepen.

### Recommended Container: Premium 1-Gallon
**AMAZING DAISIES®** Leucanthemum (Shasta Daisy)

**AMAZING DAISIES®** 'Banana Cream'
Leucanthemum superbum

This picture perfect daisy is a vigorous grower with a compact habit, excellent disease resistance, and axillary budding which results in a longer season of bloom. Large 4-5” flowers open lemon yellow and mature to creamy white on strong stems atop attractive deep green foliage. **Sobkowich**

**AMAZING DAISIES®** DASY MAY®
Leucanthemum superbum

This plant is the gold standard in white shasta daisies, with beautiful 3” white flowers that form a solid dome of blooms. Daisy May is a compact, easy-to-grow perennial with a long bloom time. Deadheading results in multiple rounds of rebloom. **Sobkowich**

**Additional Culture Information for AMAZING DAISIES®**

**pH/EC:** 5.8 - 6.2/1.25 - 1.75 pour-through method

**Rooting Out Temperature:** 65-68°F (18-20°C)

**Growing Temperature:** 60-65°F (15-18°C)

**Holding Temperature:** 40-50°F (4-10°C) outdoors

**Water Requirements:** Slightly Dry to Moist

**When to Plant:** Summer through Spring

**Finish Times in Weeks:**
- 30s - 6”/Gallon: 6-8 weeks
- 6”/Gallon: 14-16 weeks

**Recommended Container:** From 72ct plug – Trade 1-Gallon; from #1 grade bare root – Premium 1-Gallon

**Growing Tips for AMAZING DAISIES®**

- High light in production is essential.
- Avoid overwatering. Plants grown too dry will often be shorter and will have delayed flowering and fewer flowers.
- Cold vernalization adds to bud count, but warmer temperatures are needed to elongate flower stems.
- Needs 100-125 ppm N constant liquid feed for optimal growth.

**AWARD WINNER – AMAZING DAISIES®**
3 Awards: Top Performer, Erie Basin Marina

---

**SWEET ROMANCE®** Lavandula (Lavender)

**SWEET ROMANCE®** Lavandula angustifolia

With rich-colored, long-blooming flowers all season, you can depend on this plant to perform in strides. And because it blooms the first year with little or no vernalization, it is a quick crop for growers, even those in the warmest climates. **Sobkowich**

**Growing Tips for SWEET ROMANCE®**

- Vernalization is not required for plants to flower. However, vernalized plants will come into flower faster and more consistently.
- Fresh plugs grown in spring will bloom the first year. However, plugs planted in late summer will result in fuller plants to sell in spring.
- For a quick finishing crop, start with bare root liners planted in spring.
- Lavender is a very light feeder and grows well under a constant liquid fertilizer program with rate of 50-75 ppm N.
- One pinch may be necessary for small plugs.
- Lavender prefers a cool start until roots are established.
- High light produces a better quality plant.

**AWARD WINNER – SWEET ROMANCE®**
3 Awards: Top Performer, Lucas Greenhouse; Top Performer, Cornell University; Top Performer, Raker Trial

**Additional Culture Information for SWEET ROMANCE®**

**pH/EC:** 5.8 - 6.2/2.0 - 3.0 pour-through method

**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

**When to Plant:** Late Summer/Early Fall (fresh liners) or Spring (vernalized liners)

**Finish Times in Weeks:**
- 30s - 6”/Gallon: 6-8 weeks
- 6”/Gallon: 14-16 weeks
- Bare Root - 6”/Gallon: 8-10 weeks

**Recommended Container:** From 72ct plug – Trade 1-Gallon; from #1 grade bare root – Premium 1-Gallon

---

**AMAZING DAISIES®** ‘Banana Cream’
Leucanthemum superbum

This picture perfect daisy is a vigorous grower with a compact habit, excellent disease resistance, and axillary budding which results in a longer season of bloom. Large 4-5” flowers open lemon yellow and mature to creamy white on strong stems atop attractive deep green foliage. **Sobkowich**

**AMAZING DAISIES®** DASY MAY®
Leucanthemum superbum

This plant is the gold standard in white shasta daisies, with beautiful 3” white flowers that form a solid dome of blooms. Daisy May is a compact, easy-to-grow perennial with a long bloom time. Deadheading results in multiple rounds of rebloom. **Sobkowich**

**Additional Culture Information for AMAZING DAISIES®**

**pH/EC:** 5.8 - 6.2/1.25 - 1.75 pour-through method

**Rooting Out Temperature:** 65-68°F (18-20°C)

**Growing Temperature:** 60-65°F (15-18°C)

**Holding Temperature:** 40-50°F (4-10°C) outdoors

**Water Requirements:** Slightly Dry to Moist

**When to Plant:** Summer through Spring

**Finish Times in Weeks:**
- 30s - 6”/Gallon: 6-8 weeks
- 6”/Gallon: 14-16 weeks
- Bare Root - 6”/Gallon: 8-10 weeks

**Recommended Container:** Premium 1-Gallon

---

**SWEET ROMANCE®** Lavandula angustifolia

**SWEET ROMANCE®** Lavandula angustifolia

**AWARD WINNER – SWEET ROMANCE®**
3 Awards: Top Performer, Erie Basin Marina

---

**AMAZING DAISIES®** ‘Banana Cream’
Leucanthemum superbum

This picture perfect daisy is a vigorous grower with a compact habit, excellent disease resistance, and axillary budding which results in a longer season of bloom. Large 4-5” flowers open lemon yellow and mature to creamy white on strong stems atop attractive deep green foliage. **Sobkowich**

**AMAZING DAISIES®** DASY MAY®
Leucanthemum superbum

This plant is the gold standard in white shasta daisies, with beautiful 3” white flowers that form a solid dome of blooms. Daisy May is a compact, easy-to-grow perennial with a long bloom time. Deadheading results in multiple rounds of rebloom. **Sobkowich**

**Additional Culture Information for AMAZING DAISIES®**

**pH/EC:** 5.8 - 6.2/1.25 - 1.75 pour-through method

**Rooting Out Temperature:** 65-68°F (18-20°C)

**Growing Temperature:** 60-65°F (15-18°C)

**Holding Temperature:** 40-50°F (4-10°C) outdoors

**Water Requirements:** Slightly Dry to Moist

**When to Plant:** Summer through Spring

**Finish Times in Weeks:**
- 30s - 6”/Gallon: 6-8 weeks
- 6”/Gallon: 14-16 weeks
- Bare Root - 6”/Gallon: 8-10 weeks

**Recommended Container:** Premium 1-Gallon

---

**AMAZING DAISIES®** ‘Banana Cream’
Leucanthemum superbum

This picture perfect daisy is a vigorous grower with a compact habit, excellent disease resistance, and axillary budding which results in a longer season of bloom. Large 4-5” flowers open lemon yellow and mature to creamy white on strong stems atop attractive deep green foliage. **Sobkowich**

**AMAZING DAISIES®** DASY MAY®
Leucanthemum superbum

This plant is the gold standard in white shasta daisies, with beautiful 3” white flowers that form a solid dome of blooms. Daisy May is a compact, easy-to-grow perennial with a long bloom time. Deadheading results in multiple rounds of rebloom. **Sobkowich**

**Additional Culture Information for AMAZING DAISIES®**

**pH/EC:** 5.8 - 6.2/1.25 - 1.75 pour-through method

**Rooting Out Temperature:** 65-68°F (18-20°C)

**Growing Temperature:** 60-65°F (15-18°C)

**Holding Temperature:** 40-50°F (4-10°C) outdoors

**Water Requirements:** Slightly Dry to Moist

**When to Plant:** Summer through Spring

**Finish Times in Weeks:**
- 30s - 6”/Gallon: 6-8 weeks
- 6”/Gallon: 14-16 weeks
- Bare Root - 6”/Gallon: 8-10 weeks

**Recommended Container:** Premium 1-Gallon

---

**AMAZING DAISIES®** ‘Banana Cream’
Leucanthemum superbum

This picture perfect daisy is a vigorous grower with a compact habit, excellent disease resistance, and axillary budding which results in a longer season of bloom. Large 4-5” flowers open lemon yellow and mature to creamy white on strong stems atop attractive deep green foliage. **Sobkowich**

**AMAZING DAISIES®** DASY MAY®
Leucanthemum superbum

This plant is the gold standard in white shasta daisies, with beautiful 3” white flowers that form a solid dome of blooms. Daisy May is a compact, easy-to-grow perennial with a long bloom time. Deadheading results in multiple rounds of rebloom. **Sobkowich**

**Additional Culture Information for AMAZING DAISIES®**

**pH/EC:** 5.8 - 6.2/1.25 - 1.75 pour-through method

**Rooting Out Temperature:** 65-68°F (18-20°C)

**Growing Temperature:** 60-65°F (15-18°C)

**Holding Temperature:** 40-50°F (4-10°C) outdoors

**Water Requirements:** Slightly Dry to Moist

**When to Plant:** Summer through Spring

**Finish Times in Weeks:**
- 30s - 6”/Gallon: 6-8 weeks
- 6”/Gallon: 14-16 weeks
- Bare Root - 6”/Gallon: 8-10 weeks

**Recommended Container:** Premium 1-Gallon
### Cold Treatment - Vernalization Finishing Schedules and Guidelines

<table>
<thead>
<tr>
<th>Perennial</th>
<th>Sales Window (Flower)</th>
<th>Transplant</th>
<th>Starting Materials</th>
<th>Cold Treatment - Vernalization Duration (wks)</th>
<th>Finishing Schedules and Guidelines</th>
<th>Temperature (24 hour Ave)</th>
<th>Photoperiod (Day Length)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Huchera – Dolce® series Prime® series</td>
<td>Early Spring to Fall</td>
<td>Summer to Late Spring</td>
<td>Fresh or Vernalized Liners</td>
<td>6 to 9</td>
<td>Cold Required (Only for Flowering)</td>
<td>65-68°F</td>
<td>Day Neutral</td>
</tr>
<tr>
<td>Dolce® series</td>
<td>Late Spring to Early Summer</td>
<td>Liners</td>
<td>7 -9 wks</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prim® series</td>
<td>Late Spring</td>
<td>6 to 8 wks</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lavandula – Sweet Romance®</td>
<td>Late Spring to Early Summer</td>
<td>Summer through Fall</td>
<td>6&quot;/Gal</td>
<td>10</td>
<td>Cold Beneficial</td>
<td>65-68°F</td>
<td>Long Day Required</td>
</tr>
<tr>
<td>Leucanthemum – Amazing Daisies® series</td>
<td>Late Spring to Summer</td>
<td>Late Summer/Early Fall</td>
<td>6&quot;/Gal</td>
<td>8 to 9</td>
<td>Banana Cream – Cold Required Others – Cold Beneficial</td>
<td>65-68°F</td>
<td>Long Day Beneficial</td>
</tr>
</tbody>
</table>

### Perennial Culture Information

<table>
<thead>
<tr>
<th>Proven Winners</th>
<th>Sobbeówich Greenhouses</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLCE® ‘Aperitivo’ Huchera</td>
<td>50 Cell Liners</td>
</tr>
<tr>
<td>COLCE® ‘Apple Twist’ Huchera</td>
<td>50 Cell Liners</td>
</tr>
<tr>
<td>COLCE® ‘Cherry Truffles’ Huchera</td>
<td>50 Cell Liners</td>
</tr>
<tr>
<td>COLCE® ‘Silver Gumdrop’ Huchera</td>
<td>50 Cell Liners</td>
</tr>
<tr>
<td>COLCE® ‘Spearmint’ Huchera</td>
<td>50 Cell Liners</td>
</tr>
<tr>
<td>COLCE® ‘Wildberry’ Huchera</td>
<td>50 Cell Liners</td>
</tr>
<tr>
<td>PRIMO® ‘Black Pearl’ Huchera</td>
<td>50 Cell Liners</td>
</tr>
<tr>
<td>PRIMO® ‘Mahogany Monster’ Huchera</td>
<td>50 Cell Liners</td>
</tr>
<tr>
<td>PRIMO® ‘Peacberry Ice’ Huchera</td>
<td>50 Cell Liners</td>
</tr>
<tr>
<td>PRIMO® ‘Pretty Pistachio’ Huchera</td>
<td>50 Cell Liners</td>
</tr>
<tr>
<td>SWEET ROMANCE® Lavandula</td>
<td>50 Cell Liners</td>
</tr>
<tr>
<td>AMAZING DAISIES® ‘Banana Cream’ Leucanthemum</td>
<td>50 Cell Liners</td>
</tr>
<tr>
<td>AMAZING DAISIES® DAISY MAY® Leucanthemum</td>
<td>50 Cell Liners</td>
</tr>
</tbody>
</table>
Grower Programs
Building Sales with Branded Containers

Consumers are looking for the white Proven Winners container. To make it easier for them to find and easier for retailers to take advantage of the power of branding, some of our plants automatically come with our branded containers, as you can see below. Contact your propagator regarding delivery.

Plants That Come with Containers

Supertunia® Picasso in Purple® and all four Señorita and Pequeña cleomes automatically ship with the Proven Winners Grande™ container. Hanging basket labels may be purchased instead of the branded container for Picasso in Purple. Orders for liners placed without orders for container/tag will not ship.

The Proven Package is required for Amazel™ basil. Orders for liners placed without orders for container/tag will not ship.

All Proven Winners perennials automatically ship with branded containers and labels.

Proven Winners® Containers

<table>
<thead>
<tr>
<th>Container Type</th>
<th>Units per Case</th>
<th>Cases per Pallet</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.25 Grande™ Self-Symetricize® Container</td>
<td>440</td>
<td>40</td>
</tr>
<tr>
<td>4.50 Classic™ Self-Symetricize® Container</td>
<td>475</td>
<td>33</td>
</tr>
<tr>
<td>1.0 Quart Container</td>
<td>240</td>
<td>48</td>
</tr>
<tr>
<td>6.5 Container</td>
<td>248</td>
<td>48</td>
</tr>
<tr>
<td>1.0 GL Royale™ Container</td>
<td>128</td>
<td>48</td>
</tr>
<tr>
<td>8.5 Jumbo Container*</td>
<td>120</td>
<td>60</td>
</tr>
</tbody>
</table>

Early Ordering Opportunities:

We offer an Early Order Terms Program of 2% 10, Net 3/1/19 for all orders placed by September 28, 2018 which we can ship ‘as soon as available.’ If product is available for early shipment but cannot be taken early, the delivery date will revert to the date originally requested on the order and standard net 30 terms will apply.

* Customers can order a minimum of 10,000 pieces with order deadlines of April 15 and November 1. For orders outside of the deadlines, an order minimum of 25,000 pieces will apply.

Early O rdering O pportunities:

We offer an Early Order Terms Program of 2% 10, Net 3/1/19 for all orders placed by September 28, 2018 which we can ship ‘as soon as available.’ If product is available for early shipment but cannot be taken early, the delivery date will revert to the date originally requested on the order and standard net 30 terms will apply.

* Customers can order a minimum of 10,000 pieces with order deadlines of April 15 and November 1. For orders outside of the deadlines, an order minimum of 25,000 pieces will apply.

What’s in your container?

This container holds 1/2 billion impressions

Let them work for you! For over 25 years, Proven Winners® has invested in research and consumer marketing to capture home gardeners’ attention and create strong demand. Consumers get the message and instantly recognize the iconic white Proven Winners container. They look for it because they know it holds plants with outstanding beauty and proven garden performance.

Are you growing in it?

26 Canadian Billboards – 34 million impressions

Garden Answer YouTube and Facebook – 1/2 billion views

Website – 11.6+ million page views

13% Canadian views

Gardener’s Idea Book – 450,000 requests

46,000 sent to Canadians

Social Media – 303,000+ followers

Print ad campaign – 1 million Canadian subscribers
Cultivating Future Industry Leaders

The future of our industry depends largely on the next generation of leaders. That's why we are proud to support horticulture students in four-year university programs, technical colleges and two-year post-secondary institutions with our annual scholarship fund. In 2017, we presented eight exemplary students with a total of $25,000 in horticultural scholarships for plant breeding, production and marketing. Read their full stories online at www.provenwinners.com/scholarship_2017_winners.

Technical or 2-Year Post-Secondary Institution Scholarships – $2,000

Aletha Buschman
University of British Columbia
Horticulture Training Program
Areas of Study: Conservation, Garden Design

Aletha Buschman
University of British Columbia
Horticulture Training Program
Areas of Study: Conservation, Garden Design

Isolde Nielson
University of Alberta
Areas of Study: New Plant Development

Lorysa Crewe
Niagara College Canada
Areas of Study: Greenhouse Production

Paul Elias
Saskatoon School of Horticulture
Areas of Study: Greenhouse Production, Interiorscapes

Lorysa Crewe
Niagara College Canada
Areas of Study: Greenhouse Production

Paul Elias
Saskatoon School of Horticulture
Areas of Study: Greenhouse Production, Interiorscapes

Spread the Word
Know of a school who would like to spread the news about our scholarship program to their horticulture students? Please email their contact information to Kerry at Proven Winners: kerry@provenwinners.com

How to Apply
Encourage students you know to apply for one of our future scholarships online today. Applications are due by April 1st and scholarships are awarded in late June each year. Find all the details you need at www.provenwinners.com/scholarship.

Download our 12x18” scholarship poster at www.provenwinners.com/scholarship.

Recommeded replacements for dropped annual varieties for 2019

<table>
<thead>
<tr>
<th>DROPPED VARIETY</th>
<th>RECOMMENDED REPLACEMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANGELFACE® Blue Angelonia</td>
<td>ANGELFACE® Blue Improved Angelonia</td>
</tr>
<tr>
<td>ANGELFACE® Wedgewood Blue Angelonia</td>
<td>ANGELFACE® Wedgewood Blue Improved Angelonia</td>
</tr>
<tr>
<td>SUNDAZE® GOLDEN BEAUTY® Bracteantha bracteata</td>
<td>FLAMBE® Yellow Chrysanthemum apiculatum</td>
</tr>
<tr>
<td>ARTFUL® FIRE AND ICE® Caladium hortulanum</td>
<td>REGASUS® Begonia</td>
</tr>
<tr>
<td>ARTFUL® HEARTFIRE® Caladium hortulanum</td>
<td>REGASUS® Begonia</td>
</tr>
<tr>
<td>SUPERBELLS® APRICOT PUNCH® Calibrachoa</td>
<td>SUPERBELLS® TANGERINE PUNCH® Calibrachoa</td>
</tr>
<tr>
<td>SUPERBELLS® BLACKBERRY PUNCH® Calibrachoa</td>
<td>SUPERBELLS® GRAPE PUNCH® Calibrachoa</td>
</tr>
<tr>
<td>SUPERBELLS® Cherry Blossom Calibrachoa</td>
<td>SUPERBELLS® MORNING STAR® Calibrachoa</td>
</tr>
<tr>
<td>SUPERBELLS® EVENING STAR® Calibrachoa</td>
<td>SUPERBELLS® EVENING STAR® Improved Calibrachoa</td>
</tr>
<tr>
<td>SUPERBELLS® Garden Rose Calibrachoa</td>
<td>SUPERBELLS® Pink Calibrachoa</td>
</tr>
<tr>
<td>SUPERBELLS® SPICY Calibrachoa</td>
<td>SUPERBELLS® TANGERINE PUNCH® Calibrachoa</td>
</tr>
<tr>
<td>FLUATION® Glacier White Diascia</td>
<td>SUNGATIA® Coconut Nemesia</td>
</tr>
<tr>
<td>FLUATION® Pink Diascia</td>
<td>OPAL INNOVENCE® Nemesia fruticans</td>
</tr>
<tr>
<td>FLUATION® Orange Diascia</td>
<td>SUNGATIA® BLOOD ORANGE® Nemesia</td>
</tr>
<tr>
<td>HELLO! Miss Scarlet Gerbera</td>
<td>DAHLIGHTFUL® Sultry Scarlet Dahlia variabilis</td>
</tr>
<tr>
<td>HELLO! Magentamen Gerbera</td>
<td>DAHLIGHTFUL® Crushed Crimson Dahlia variabilis</td>
</tr>
<tr>
<td>HELLO! Pumpkin Gerbera</td>
<td>DAHLIGHTFUL® Georgia Peach Dahlia variabilis</td>
</tr>
<tr>
<td>HELLO! Sunshine Gerbera</td>
<td>DAHLIGHTFUL® Tutelo Dahlia variabilis</td>
</tr>
<tr>
<td>ROCKAPULCO® Dark Orange Impatiens walleriana</td>
<td>ROCKAPULCO® Coral Reef Impatiens walleriana</td>
</tr>
<tr>
<td>RUFFLES® Fuchsia Rose Impatiens hawkeri</td>
<td>INFINITY® Blushing Lilac Impatiens hawkeri</td>
</tr>
<tr>
<td>RUFFLES® Lavender Impatiens hawkeri</td>
<td>INFINITY® Lavender Impatiens hawkeri</td>
</tr>
<tr>
<td>RUFFLES® Peach Impatiens hawkeri</td>
<td>INFINITY® Orange Frost Impatiens hawkeri</td>
</tr>
<tr>
<td>RUFFLES® Red Impatiens hawkeri</td>
<td>INFINITY® Red Impatiens hawkeri</td>
</tr>
<tr>
<td>Sweet Caroline Bronze® ipomoea batatas</td>
<td>‘Sweet Caroline Red’ ipomoea batatas</td>
</tr>
<tr>
<td>Sweet Caroline Raven® ipomoea batatas</td>
<td>‘Sweet Caroline Raven’ Improved ipomoea batatas</td>
</tr>
<tr>
<td>PURPLE CHABIS® Lamium maculatum</td>
<td>PINK CHABIS® Lamium maculatum</td>
</tr>
<tr>
<td>LUCIOUS® CITRUS BLEND® Lantana camara</td>
<td>LUCIOUS® CITRUS BLEND® Improved Lantana camara</td>
</tr>
<tr>
<td>LEMON DROP® Geranthera</td>
<td>FLAMBE® Yellow Chrysanthemum apiculatum</td>
</tr>
<tr>
<td>SOPRANO® Light Purple Osteospermum</td>
<td>BRIGHT LIGHTS® Pink Osteospermum</td>
</tr>
<tr>
<td>SUPERBUNIA® PRETTY MUCH® Petunia</td>
<td>SUPERBUNIA® PICASSO IN PURPLE® Petunia</td>
</tr>
<tr>
<td>SUPERBUNIA® PICASSO IN BLUE® Petunia</td>
<td>SUPERBUNIA® PICASSO IN PURPLE® Petunia</td>
</tr>
<tr>
<td>SUPERBUNIA® PICASSO IN PINK® Petunia</td>
<td>SUPERBUNIA® PICASSO IN PURPLE® Petunia</td>
</tr>
<tr>
<td>SUPERBUNIA® Mini White Petunia</td>
<td>SUPERBUNIA® White Petunia</td>
</tr>
<tr>
<td>ABLAZIN® Purple Salvia splendens</td>
<td>ROCKIN™ Deep Purple Salvia</td>
</tr>
<tr>
<td>ABLAZIN® Tabasco Salvia splendens</td>
<td>ROCKIN™ Fuchsia Salvia</td>
</tr>
<tr>
<td>NEW WONDER® Scabiosa aemula</td>
<td>WHIRLWIND® Blue Scabiosa</td>
</tr>
<tr>
<td>PINK WONDER® Scabiosa aemula</td>
<td>WHIRLWIND® Pink Scabiosa aemula</td>
</tr>
<tr>
<td>COLORBLAZE® ROYAL GLISSADE® Solenostemon scutellarioides</td>
<td>COLORBLAZE® Digi in Wine Solenostemon scutellarioides</td>
</tr>
<tr>
<td>COLORBLAZE® KEYSTONE KOPPER® Solenostemon scutellarioides</td>
<td>COLORBLAZE® SEDONA SUNSET® Solenostemon scutellarioides</td>
</tr>
<tr>
<td>COLORBLAZE® MARCONED® Solenostemon scutellarioides</td>
<td>COLORBLAZE® REDCILIOUS® Solenostemon scutellarioides</td>
</tr>
<tr>
<td>COLORBLAZE® Sedona™ Solenostemon scutellarioides</td>
<td>COLORBLAZE® SEDONA SUNSET™ Solenostemon scutellarioides</td>
</tr>
<tr>
<td>COLORBLAZE® Kingswood Torch Solenostemon scutellarioides</td>
<td>COLORBLAZE® TORCHLIGHT™ Solenostemon scutellarioides</td>
</tr>
<tr>
<td>SUPERBENA® Burgundy Verbena</td>
<td>SUPERBENA® Plum Wine Verbena</td>
</tr>
<tr>
<td>SUPERBENA® Royal Red Verbena</td>
<td>SUPERBENA® Red Verbena</td>
</tr>
<tr>
<td>SUPERBENA® Royale Whitecap Verbena</td>
<td>SUPERBENA® WHITEOUT® Verbena</td>
</tr>
<tr>
<td>SUPERBENA® Raspberry Verbena</td>
<td>SUPERBENA® Raspberry Verbena</td>
</tr>
<tr>
<td>TUKANA® Scarlet Verbena</td>
<td>SUPERBENA® Red Verbena</td>
</tr>
<tr>
<td>TUKANA® Scarlet Star Verbena</td>
<td>SUPERBENA® Scarlet Star Verbena</td>
</tr>
</tbody>
</table>
Proven Winners Annuals re-named for 2019

The following name changes are being made to standardize plants across a collection, or to make the distinguishing characteristic of a series more evident.

<table>
<thead>
<tr>
<th>New Name</th>
<th>Former Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laguna™ Dark Blue Lobelia erinus</td>
<td>Lucia® Dark Blue Lobelia erinus</td>
</tr>
<tr>
<td>Laguna™ UltraViolet™ Lobelia erinus</td>
<td>Lucia® UltraViolet™ Lobelia erinus</td>
</tr>
<tr>
<td>SuperTunia™ Trailing Blue Petunia</td>
<td>SuperTunia® Mini Blue Petunia</td>
</tr>
<tr>
<td>SuperTunia™ Trailing Blue Veined Petunia</td>
<td>SuperTunia® Mini Blue Veined Petunia</td>
</tr>
<tr>
<td>SuperTunia™ Trailing Bright Pink Petunia</td>
<td>SuperTunia® Mini Bright Pink Petunia</td>
</tr>
<tr>
<td>SuperTunia™ Trailing Purple Petunia</td>
<td>SuperTunia® Mini Purple Petunia</td>
</tr>
<tr>
<td>SuperTunia™ Trailing Rose Veined Petunia</td>
<td>SuperTunia® Mini Rose Veined Petunia</td>
</tr>
<tr>
<td>SuperTunia™ Trailing Silver Petunia</td>
<td>SuperTunia® Mini Silver Petunia</td>
</tr>
<tr>
<td>SuperTunia™ Trailing Strawberry Pink Veined Petunia</td>
<td>SuperTunia® Mini Strawberry Pink Veined Petunia</td>
</tr>
<tr>
<td>ColorBlaze® Royale Alligator Tears™ Solenostemon scutellarioides</td>
<td>ColorBlaze® Alligator Tears™ Solenostemon scutellarioides</td>
</tr>
<tr>
<td>ColorBlaze® Royale Apple Brandy™ Solenostemon scutellarioides</td>
<td>ColorBlaze® Apple Brandy™ Solenostemon scutellarioides</td>
</tr>
</tbody>
</table>

Recommended replacements for dropped perennial varieties for 2019

<table>
<thead>
<tr>
<th>Dropped Variety</th>
<th>Recommended Replacement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dolce® ‘Blackberry Ice’ Heuchera</td>
<td>Dolce® ‘Wildberry’ Heuchera</td>
</tr>
<tr>
<td>Dolce® Brazen Raisin™ Heuchera</td>
<td>Primo® ‘Black Pearl’ Heuchera</td>
</tr>
<tr>
<td>Dolce® Cinnamon Curls™ Heuchera</td>
<td>Dolce® Cherry Truffles’ Heuchera</td>
</tr>
<tr>
<td>Dolce® Crème Brûlée Heuchera</td>
<td>Primo® Peachberry Ice’ Heuchera</td>
</tr>
</tbody>
</table>

Earn Points for Your Purchases

With as little as 1,900 – 3,800 sq. ft. of growing space and multiple turns, you can qualify for our Key Account program. Each level offers more points that can be used for discounts on products and services.

<table>
<thead>
<tr>
<th>Key Account Grower Reward Levels</th>
<th>PW Proven Winners®</th>
<th>PW Proven Winners®</th>
<th>PW Proven Winners®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liners Needed</td>
<td>20,000 – 49,999</td>
<td>50,000 – 99,999</td>
<td>100,000+</td>
</tr>
<tr>
<td>Greenhouse Space Needed</td>
<td>3,800 sq. ft.</td>
<td>9,400 sq. ft.</td>
<td>18,900 sq. ft.</td>
</tr>
<tr>
<td>Points Earned</td>
<td>1/4 per liner (5,000-12,499)</td>
<td>1/2 per liner (25,000-49,999)</td>
<td>1 per liner (100,000+)</td>
</tr>
<tr>
<td></td>
<td>Approximately $50-124.99</td>
<td>Approximately $250-499.99</td>
<td>Approximately $1000+</td>
</tr>
</tbody>
</table>

2019 points accumulate from July 1, 2018 to June 30, 2019.

All points earned by Canadian customers can roll for a second year.
Cultural Information
<table>
<thead>
<tr>
<th>Vigor</th>
<th>pH/EC</th>
<th>Rooting Out Temperature</th>
<th>Growing Temperature</th>
<th>Holding Temperature</th>
<th>Water Requirements</th>
<th>Planting and Timing</th>
<th>Finish Times in Weeks</th>
<th>Spring Outdoor Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTIST® Agapanthus</td>
<td>Vigor 2</td>
<td>5.8 - 6.2 / 6 - 7</td>
<td>65-72°F (18-22°C)</td>
<td>70-75°F (21-24°C)</td>
<td>50-60°F (10-16°C)</td>
<td>Moderate</td>
<td>Early Spring through Summer</td>
<td>Finish: Standard Plants Per Container</td>
</tr>
</tbody>
</table>

| ARIEL® Angelonia | Vigor 3 | 5.8 - 6.2 / 6 - 7 | 65-72°F (18-22°C) | 70-75°F (21-24°C) | 60-68°F (12-18°C) | Spring through Summer | Finish: Standard Plants Per Container | For 4.5-5' / 8-10', 7-8', for 8', 6-8' | Do not finish inside in 10-12 |

| BUTTERFLY Argyranthemum | Vigor 3 | 5.8 - 6.2 / 6 - 7 | 66-68°F (18-19°C) | 40-50°F (4-10°C) | Moderate | Early Spring through Full Finish | Standard Plants Per Container | For 4.5-5' / 8-10', 7-8', for 8', 6-8' | First to go outside |

| SILVER BULLET® Artemisia | Vigor 3 | 5.8 - 6.5 / 6 - 7 | 58-68°F (12-18°C) | 40-50°F (4-10°C) | Moderate | Early Spring through Full Finish | Standard Plants Per Container | For 4.5-5' / 8-10', 7-8', for 8', 6-8' | First to go outside |

| PESUS® Begonia | Vigor 3 | 5.5 - 6.3 / 6 - 7 | 65-72°F (18-22°C) | 65-72°F (18-22°C) | Dry to Moderate | Spring to Full Finish | For 6', 6-8', for 8', 6-8' | Do not move outside until all danger of frost is past |

| SUREFIRE® Begonia | Vigor 4 | 5.5 - 6.2 / 6 - 7 | 65-72°F (18-22°C) | 65-72°F (18-22°C) | Dry to Moderate | Spring to Full Finish | For 5.5-6.5' / 8-10', 5-6' | Do not move outside until all danger of frost is past |

| CAMPFIRE® Firebush and GOLDLICKS RICK® Bidens | Vigor 1 | 5.8 - 6.2 / 6 - 7 | 58-68°F (12-18°C) | 40-50°F (4-10°C) | Moderate | Early Spring through Full Finish | Standard Plants Per Container | For 4.5-5' / 8-10', 7-8', for 8', 6-8' | Second to go outside |

| ENDLESS® Bromeliad | Vigor 2 | 6.5 - 7.6 / 6 - 7 | 70-88°F (21-29°C) | 70-88°F (21-29°C) | Late Spring | Spring to Full Finish | For 5.5-6.5' / 8-10', 5-6' | Last to go outside |

| LADY GODIVA® Calocephalum | Vigor 2 | 5.8 - 6.2 / 6 - 7 | 58-68°F (12-18°C) | 40-50°F (4-10°C) | Moderate | Early Spring through Full Finish | Standard Plants Per Container | For 4.5-5' / 8-10', 7-8', for 8', 6-8' | Second to go outside |

| SUPERBELLS® Calocephalum | Vigor 2 | 5.5 - 5.9 / 6 - 7 | 58-68°F (12-18°C) | 40-50°F (4-10°C) | Moderate | Early Spring through Full Finish | Standard Plants Per Container | For 4.5-5' / 8-10', 7-8', for 8', 6-8' | Second to go outside |

| TOUCAN® Cannas | Vigor 4 | 6.2 - 7.0 / 3-2 | 75-89°F (24-32°C) | 75-89°F (24-32°C) | Late Spring | Spring to Full Finish | Standard Plants Per Container | For 4.5-5' / 8-10', 7-8', for 8', 6-8' | Last to go outside |

| FLAMING® Yellow Calocephalum | Vigor 2 | 6.0 - 6.5 / 6 - 7 | 65-72°F (18-22°C) | 65-72°F (18-22°C) | Dry to Moderate | Spring to Full Finish | Standard Plants Per Container | For 4.5-5' / 8-10', 7-8', for 8', 6-8' | Last to go outside |

| PEQUEÑA and SERENTISSIMA Dame | Vigor 2 | 5.8 - 6.2 / 6 - 7 | 65-72°F (18-22°C) | 65-72°F (18-22°C) | Dry to Moderate | Spring to Full Finish | Standard Plants Per Container | For 4.5-5' / 8-10', 7-8', for 8', 6-8' | Last to go outside |

| CULTURE | | | | | | | | |
### Cultural Information for Annuals

<table>
<thead>
<tr>
<th>Cultural Information for Annuals</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Vigor</strong></td>
</tr>
<tr>
<td>---------------------</td>
</tr>
<tr>
<td>ROCKPALUS® Impatiens</td>
</tr>
<tr>
<td>ILLUSIONS® and Sweet Carolina Sunflower</td>
</tr>
<tr>
<td>BETH'S BLUE® Lobelia</td>
</tr>
<tr>
<td>PINE CHABlis® Lantana</td>
</tr>
<tr>
<td>LUCIOUS! BERRY BLEND® Citrus Blend, Pinkberry Blend®</td>
</tr>
<tr>
<td>LAGUNA® Calibrachoa</td>
</tr>
<tr>
<td>BLUSHING PRINCESS® DARK KNIGHT® SNOW PRINCESS® PRAISINGSTUR® WHITE NIGHT® Lobelia</td>
</tr>
<tr>
<td>GOLDDUST® Maculata</td>
</tr>
<tr>
<td>SUNSATIA® Nemesia</td>
</tr>
<tr>
<td>INNOCENCE® Nemesia fruticosa</td>
</tr>
<tr>
<td>INFINITY® New Guinea Impatiens</td>
</tr>
</tbody>
</table>
Cultural Information for Proven Harvest**

<table>
<thead>
<tr>
<th>Vigor</th>
<th>pH/ECC</th>
<th>Rooting Out Temperature</th>
<th>Growing Temperature</th>
<th>Holding Temperature</th>
<th>Water Requirements</th>
<th>Planting and Timing</th>
<th>Finish Times in Weeks</th>
<th>Spring Outdoor Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>BERRIED TREASURE® Fragaria</td>
<td>Vigor 2</td>
<td>5.0-6.0/0.0-0.8</td>
<td>65-72°F (18-22°C)</td>
<td>65-72°F (18-22°C)</td>
<td>50-60°F (10-16°C) outdoors</td>
<td>Medium</td>
<td>Medium to Mixed</td>
<td>Spring through Summer Finish. Standard Plants Per Container</td>
</tr>
<tr>
<td>'Garden Gem' 'Garden Treasure' 'Lycopersicon'</td>
<td>Vigor 4</td>
<td>5.0-5.8/0.0-0.8</td>
<td>65-72°F (18-22°C)</td>
<td>65-72°F (18-22°C)</td>
<td>50-60°F (10-16°C) outdoors</td>
<td>Medium</td>
<td>Medium to Mixed</td>
<td>Spring through Summer Finish. Standard Plants Per Container</td>
</tr>
<tr>
<td>AMAZEL® Basil Ocimum</td>
<td>Vigor 4</td>
<td>6.0-5.0/0.0-0.3</td>
<td>65-72°F (18-22°C)</td>
<td>65-72°F (18-22°C)</td>
<td>50-60°F (10-16°C) outdoors</td>
<td>Medium</td>
<td>Medium to Mixed</td>
<td>Spring through Summer Finish. Standard Plants Per Container</td>
</tr>
</tbody>
</table>

Cultural Information for Proven Harvest**

When you have growing questions, you can access our online growing guide for answers. By providing easy, 24/7 access to this information, we save you time — and money — so you can spend it tending to business and building that business, too.

Online Cultural Guide

When you have growing questions, you can access our online growing guide for answers. By providing easy, 24/7 access to this information, we save you time — and money — so you can spend it tending to business and building that business, too.

Groower Culture on provenwinners.com

- Culture search by variety
- Culture groups
- New variety culture
- Flowering timing charts
- Outdoor growing tips
- Perennial timing

Cultural Information for Proven Harvest**

To produce the highest quality plant material, growers must have detailed crop culture information. In order to help our grower customers produce the best finished crops, our propagators have developed this user-friendly guide which categorizes plants by their basic cultural needs — pH, growing temperature, and fertilization. The goal is to aid our grower customers in setting up custom growing environments for plants grouped by their basic needs. Visit provenwinners.com for more detailed cultural information on all Proven Winners varieties.

Proven Winners® Annuals

<table>
<thead>
<tr>
<th>Growing Temp</th>
<th>A pH 5.5 - 5.8</th>
<th>B pH 5.8 - 6.2</th>
<th>C pH 6.0 - 6.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>A 65-85°F (12-26°C)</td>
<td>Sperula® 'Calibrachoa', Sunsatia® and other Nemesis, Superbells® Petunia</td>
<td>Butterfly 'Antiquarian', Lamb® Feedburn and Goldocks Rock'® Bidens, Lady Godiva® Calendula, Kalanchoe® and Stralsphere® Gaura, Beth's Blue® Verbena, Symphony, Soprano® and Bright Lights® Osteospermum, Intensia® Phlox, and Rockin'® Salvia</td>
<td>Silver Bullet® Artemisia, Pink Dazzle® Lantana, Princess and Knight Lobelia</td>
</tr>
</tbody>
</table>
| C 70-75°F (21-24°C) | Angelface® Angelina, Happy® Hibiscus, Luscious® Lavender, GoldBull® Mecadonia, Fireworks® Purple Fountain Grass, Red Riding Hood, and 'Sky Rocket' Pennisetum, Fiber Optic Grass, Scopus, AEE® Thunbergia, Catalina® and Summer Wave® Verbena | Endless® Browallia, Vermillionaire® Cuphea, Blue My® Mip®, Exvoluta, Illusion® and Sweet Caroline Impatiens, Infinity® New Guinea Impatiens | In growing group codes, the first letter represents the Growing Temp and the second letter represents the pH. 
Fertilizer rate for all plants listed above is 150-200 Constant Liquid Feed (CLF) with the following exceptions:
- 75-100 CLF Endless® Browallia
- 130-150 CLF Endless® Browallia

*GROWER 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.
Culture Notes and Groups:

pH:
A: pH 5.5-6.0
B: pH 5.6-6.2
C: pH 6.0-6.5

EC:
A: < .6
B: .6-.9
C: 1.0-2.0

Well-Balanced Fertilizer
N-P-K: 2:1:1.5 with adequate amounts of micronutrients
Low: 100-150 ppm Constant Liquid Feed
Medium: 150-200 ppm Constant Liquid Feed
High: 200-300 ppm Constant Liquid Feed

Fertilizer Disclaimer:
It is a good practice to clear water (leach) once every 3-4 times you water to lower soluble salt levels in the media. EC should also be monitored using weekly EC measurements.

Rooting Out Temperatures:
The first 10 days of container growth: establishing root system to outside edge of container from the newly planted liner.
85-72°F (18-22°C)

Growing Temperatures:
Once roots are to the edge of the container – growing on the plant and bulking up foliage and flowers.
A: 55-65°F (12-18°C)
B: 65-72°F (18-22°C)
C: 70-75°F (21-24°C)
Night temperatures should be run 5°F (15°C) lower than day temperatures

Holding Temperatures:
(For toning crops and/or for when you have to hold the crop when it is ready to go)
A: 40-50°F (4-10°C) outdoors*
B: 50-60°F (10-16°F)
C: Maintain Growing Temperatures

Light Levels:
High: Full sun crops need very high, bright light
Moderate: Sun to partial shade crops, High to moderate light
Low: Partial to full shade crops, Moderate to low light

Moisture Regimes:
Transplant:
Water lightly to maintain moisture level within root zone until roots reach the side of the finished container. Once roots are developed to the side of the pot, see finish watering regime.

Finish Watering Regimes:
A: Dry to Moderate: Water thoroughly without over-saturating, keep moist during root development; allow soil surface to dry completely before watering after the crop is rooted to the edge of the pot.
B: Moderate to Moist: Water thoroughly without over-saturating, keep moist but not wet throughout entire growth cycle.
C: Moist to Wet: Water thoroughly and keep moisture constant throughout entire growth cycle.

Standard Plants Per Pot (PPP):
4.5": 1 ppp
6": 1-2 ppp
Gallon: 1-3 ppp
8": 3 ppp
10-12": 3-5 ppp

Soil Mix for Container Growing:
Use a high-quality, professional grade soil mix that is adjusted to work with your water quality and growing style to help manage pH and water control.
Use a well-drained, high-quality professional grade soil mix.
A peat-lite based soil or equivalent that gives you 60% organic matter and 40% secondary aggregates, such as perlite, rock-wool, coir, and/or bark, will provide proper soil porosity (well-drained soil).

Growth Regulator Disclaimer:
All PGR rates should be trialed by each individual grower before applications are made to entire crop to ensure desired results. All rates are given as a spray unless otherwise stated. Summer production may require higher PGR rates when crops are grown indoors. Proven Winners and its affiliates are not responsible for misapplication or misuse of these products. Check manufacturers’ labels for approved rates and usage recommendations.

Pest Management:
A weekly scouting program is suggested. Monitor for common greenhouse pests. Treat accordingly, using label instructions. Be sure to rotate chemical classes to guard against development of resistance to chemicals.

Disease Management:
Prevent with preventative broad spectrum fungal drench once 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 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. Good water management practices are critical to healthy plant growth.

Day Neutral:
Ability of plants to flower freely regardless of day-length.

Vernalization:
Crop quality and flower number and presentation for perennial plants often will be improved with a cold treatment.

Spring Outdoor Finish:
Many Proven Winners crops can be finished outdoors under cool temperatures. Finishing under cool temperatures will allow you to expand production area, allows additional space inside greenhouse, allows additional turns, and improves quality of the product. Those plants finished outdoors will need additional time to finish. Specific finishing times are difficult to predict due to variability in weather patterns. Outdoor mum production areas are perfect to use as spring cold temperature finishing space.

Before plants are moved outside, they should be acclimated to colder temperatures using holding temperatures stated above.

Ideally, plants should be moved outdoors on an overcast day, with moderate temperatures, little wind, and no severe cold (freezing temperatures) forecasted for the next 24 hours. Often a full moon will mean clear skies, which will allow temperatures to drop more than expected. To maintain proper nutrition after a heavy rain, a light water application with 400-500 ppm N can be used on the already wet plants (this high fertilizer application on dry plants will result in burn).

Plants vary in ability to withstand cold temperature finishing. To help you manage when crops can be placed outdoors, we have split our plant material into 3 groups (Not all crops can be finished outdoors and will be noted as No). In the case of unusually cold temperatures, you should have frost protection measures ready (frost cloth, sprinklers, or ability to move plants under cover).

It is generally too cold for insects and disease to prosper. You should continue to scout for problems, however, chemical control measures probably won’t be needed. Plant growth regulators will not be needed to control growth.

Growers who wish to try this method of finishing plants should trial a small portion of their plant material the first year to gain experience and comfort. Each year will differ and growers need to be prepared to adapt as conditions change.

A: First to go outside – 33-36°F (-2°C):
These plants can be placed outside the earliest. When temperatures are not forecasted to drop below freezing for the next 10 days you should be able to move these plants outdoors. Should the temperature be forecasted to drop below 26°F (-2°C), protection measures should be taken.

B: Second to go outside – 38-42°F (3-5°C):
This is the second wave of plant material. These plants can be moved outside when odds are that temperatures are much less likely to drop below freezing. Protection measures should be taken for this group when temperatures are forecasted to reach 32°F (0°C). Average daily temperatures should be higher than when group A material was moved out. Generally, a few weeks after group A is moved out, group B can be moved outside.

C: Last to go outside – 45°F to 1°C (7°C+)
This is the third wave of plant material. These plants can be moved outside when temperatures are no longer likely to reach freezing. A hard frost will cause damage to this group. If a hard frost is forecasted, protection measures should be implemented.

For questions please call the grower hotlines:
Nordic Nurseries – 604.607.7074
Ed Sobkowich Greenhouses – 905.945.8870