

Growing Tips and Information

Recommended Plant and Grow Combinations

2

Variety Combos

Supertunia® Minis Petunia /
Superbells® Calibrachoa

Superbena® Verbena / Illusion®
or Sweet Caroline Ipomoea

Lucia® Lobelia /
Sunsatia® Nemesia

Symphony Osteospermum / Supertunia®
Petunia (*day-length neutral varieties*)

Nemesia fruticans /
Soprano® Osteospermum

Babylon® Verbena / Flying Colors® Diascia

Supertunia® Pretty Much Picasso® /
Illusion® or Sweet Caroline Ipomoea

3

Variety Combos

Supertunia® Petunia / Symphony
Osteospermum / Sunsatia® Nemesia

Flying Colors® Diascia / Nemesia
fruticans / Soprano® Osteospermum

Superbena® Verbena / Intensia®
Phlox / Helichrysum

Superbells® Calibrachoa / Supertunia®
Petunia / Superbena® Verbena

Snow Princess® Lobularia /
Supertunia® Petunia / Illusion®
or Sweet Caroline Ipomoea

Proper Crop Time

Avoid giving baskets too much crop time. For 10-inch baskets, 8 to 10 weeks is ideal; for 12-inch baskets, 10 to 12 weeks is best.

The Word on Fertilizer

Remember to have your water tested before fertilizing to ensure that you are making the right fertilizer choice. In most cases, constant 200 ppm N is the best option. Slow release can be used to help in outdoor growing plans.



Perform a pre-season water test to select fertilizer and a random soil test at time of hanging

Filling Out the Container

Use 4 to 6 liners for 10-inch to 12-inch containers and 6 to 8 liners for 12-inch to 18-inch containers. Using fewer liners will mean additional crop time or containers that do not fill out properly.

More Liners = Blooms²

Hangin' On

Do not hang baskets under gutters. For best results, baskets need space, good air movement, and adequate light, and they should not be dripped on heavily.



H₂O

Proper Watering for Hanging Baskets

- Make sure each basket has drainage.
- Remember that coco fiber, moss, and terra cotta baskets will dry out much faster than plastic.
- Age of plant and size of basket dictate water needs. When young and rooted in, water two times per week; in favorable spring weather water once or twice a day in the greenhouse.
- Water until water comes out of the bottom of the basket. This helps to leach out salt build-up and to maintain proper EC levels.
- The larger the basket, the more soil volume so the less often it needs to be watered.
- If you are using a water retention soil additive, be sure to control water early in the basket cycle.

Did You Know?

You can access specific growing information on any Proven Winners plant by visiting the Professional Growers section of our website at www.provenwinners.com. Our entire Cultural Guide is also available online.

www.provenwinners.com



Growing Cold or Warm?

Do not water containers heavily at the time of planting and then move to a cold environment. For best results, water lightly and more often and grow warm until rooted into the container. When well-rooted, the plants can often be grown cooler.

Finishing Touches

- Apply Florel® to most baskets 2 weeks after planting and then hang. Do not apply Florel® to Torenia.
- A pinch 3 to 4 weeks after planting bulks up the plants and encourages branching.
- If baskets are going into warmer poly areas, it is best to spray 10 ppm of Sumagic® 2 weeks after planting and just before hanging.
- When plants are $\frac{3}{4}$ their full size, use a Bonzi® drench (1-3 ppm in North; 2-5 ppm in Central) to help baskets hold their size and shape in the greenhouse and at retail. Do not use on Diamond Frost®.
- Cool temperatures can be an effective growth regulator.



Strong Roots

Once the liner is established, allow the soil surface to dry before watering again. This forces the roots to follow the moisture down in the container building a strong root system.

Cultural Information and Growing Tips

To produce the highest quality plant material, growers must have detailed, specific crop culture. But to organize and sort the necessary information can be a challenge. What follows is a new, user-friendly yet comprehensive format developed by our propagators. Their system uses series charts that categorize the plant material according to basic environmental needs – pH, growing temperature, and fertilization. Besides enabling you to set up several different environments and group plants with similar basic requirements, you now have a single source of information about all Proven Winners® and Proven Selections® varieties. While you will still want to refer to specific crop culture for detailed information, together these two references should help you produce the best plants possible.

Proven Winners® Annuals and Graceful Grasses®

Temp	A pH 5.5 - 5.8	B pH 5.8 - 6.2	C pH 6.0 - 6.5
A 55°-65° F	Sundaze® Bracteantha*, Superbells® Calibrachoa, Sunsatia® and other Nemesia, Supertunia® and Supertunia® Pretty Much Picasso® Petunia†, and Intensia® Phlox	Argyranthemum, Bidens, Flying Colors® and Flirtation® Diascia, Symphony and Soprano® Osteospermum	Snow Princess® Lobularia and Augusta® Blue Skies Nierembergia
B 65°-72° F	New Wonder/Whirlwind® Scaevola, Sutera (Bacopa), Tapien® Blue Violet Verbena and Babylon® Carpet Blue Verbena	Artist® Ageratum, Toffee Twist Carex*, Señorita Rosalita® Cleome†, Spirit™ Cleome†, Diamond Frost® Euphorbia, Fiber Optic Grass*, Simply Scensational™ Heliotropium, Rockapulco® Impatiens, Laguna™ and Lucia® Lobelia, GoldDust™ Mecardonia, Charmed® Oxalis, Sunbini Sanvitalia*, Babylon® (not Babylon® Carpet Blue), Superbena®, and Tukana® Verbena	Flambé® Chrysocephalum, ColorBlaze® Coleus, King Tut® and Baby Tut™ Cyperus, Ipomoea, and Daredevil® Pelargonium
C 70°-75° F		Angelface® Angelonia, Slightly Strawberry™ Anisodonteia, Luscious® Lantana, Purple Fountain Grass* and Red Riding Hood* Pennisetum, Catalina® and Summer Wave® Torenia	Inifinity® New Guinea Impatiens*

Fertilizer: 150-200 Constant Liquid Feed (CLF)

*100-150 CLF

† 200-300 CLF

Proven Winners® Perennials

Temp	A pH 5.5 - 5.8	B pH 5.8 - 6.2	C pH 6.0 - 6.5
A 55°-65° F		Decadence™ Baptisia, Absolutely Amethyst™ Iberis, Daisy May™ Leucanthemum, Karalee® and Stratosphere™ Gaura•, Hosta, Lemon Drop® Oenothera•, 'Shockwave' Phlox, Garnet Brocade™ and 'Maestro' Sedum	Madly™ Aubrieta, Hemerocallis, Pink Chablis® Lamium
B 65°-72° F	'Tuscan Sun' Heliopsis, Summerific™ Hibiscus, 'Hocus Pocus' and 'Sweet Lullaby' Veronica	Euphorbia (not Diamond Frost), 'Little Annie' Echinacea, Festival Star™ Gypsophila, Dolce® Heuchera, 'Banana Cream' and Broadway Lights™ Leucanthemum, 'Desert Plains' Pennisetum	'Cheyenne Sky' and 'Dust Devil' Panicum

Fertilizer: 150-200 Constant Liquid Feed (CLF)

*100-150 CLF

•Tender Perennial

Culture Notes and Groups:

pH:

- A: pH 5.5-5.8
- B: pH 5.8-6.2
- 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.

Growing Temperatures:

(Growing roots to edge of pot/growing on and bulking plants)

- A: 65-72°/55-65° F
- B: 65-72°/65-72° F
- C: 65-72°/70-75° F

Night temperatures should be run 5° F 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 (outdoors)
- B: 50-60° 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.

Plants Per Pot (PPP):

Standard:

- 4-5": 1 ppp
- 6": 1-2 ppp
- Gallon: 1-3 ppp
- 8": 3 ppp
- 10-12": 3-5 ppp

More cuttings per pot will yield faster finishing times. The higher light and temperatures experienced with summer production will dramatically reduce crop times.

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.

Attend a FREE Proven Winners Roadshow® this Fall



By working together, we can increase your profits and achieve success. The first step is for you to learn about our products and programs – and for us to learn about your business. Last year's Roadshows set a new attendance record, so we urge you to register early.

This year, among the topics to be presented by our traveling team of marketers, horticulturists, and retail experts are:

- New Proven Winners Varieties and Programs
- Cultural Tips
- Proven Winners ColorChoice® Flowering Shrubs
- Proven Winners Perennials
- Judy Sharpton on Creating Destinations, Merchandising, and Store Layouts

Who should attend:

- Growers
- Garden Centre Managers and Staff
- Retailers
- Landscapers
- Broker Reps
- Designers
- Trade Press
- Consumer Press

All Proven Winners Roadshows are from 8:30 a.m. to 3:30 p.m. Registration is free and includes a complimentary continental breakfast and sit-down lunch. Proven Winners will charge no-shows \$25 (US) per person.

For more information or to register call **877-895-8138** toll-free or visit **provenwinners.com**.

2011 Roadshow Information

Seattle (Tacoma) Roadshow

October 4, 2011

Hotel Murano
1320 Broadway Plaza, Tacoma, WA 98402

Kelowna, BC Roadshow

October 6, 2011

Hotel Eldorado
500 Cook Rd, Kelowna, BC V1W 3G9



Newark (Secaucus) Roadshow

October 11, 2011

Crowne Plaza Hotel
Two Harmon Plaza, Secaucus, NJ 07094

Nashville (Franklin) Roadshow

October 19, 2011

Franklin Marriott Cool Springs
700 Cool Springs Blvd., Franklin, TN 37067

Chicago (Downers Grove) Roadshow

October 21, 2011

Doubletree Suites by Hilton
2111 Butterfield Rd., Downers Grove, IL 60515

Charlotte (Concord) Roadshow

October 25, 2011

Embassy Suites Charlotte-Concord
5400 John Q. Hammons Dr. NW, Concord, NC 28027

Richmond Roadshow

October 27, 2011

Crowne Plaza Richmond Downtown
555 East Canal Street, Richmond, Virginia 23219

Dates, times, and locations subject to change.

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SUPERBELLS® Grape Punch *Calibrachoa hybrid*
Sweet Caroline Raven *Ipomoea batatas*



SUPERBELLS® Cherry Star *Calibrachoa hybrid*
SUNSATIA® Lemon *Nemesia hybrid*



SUPERBELLS® Sweet Tart *Calibrachoa hybrid*
'Sweet Caroline Light Green' *Ipomoea batatas*