

ANNUAL

PROPAGATION

VERBENA EMPRESS™

Verbena x hybrida



TRAY & ROOTING

Form	Vegetative Cutting (URC)
Rooting Hormone?	No
Tray Size	50, 72, 84, 105
Plants Per Cell	1
Days In Mist	4-6
Wks. From Stick To Transplant	3-4
Propagation Pinch?	Yes
Weeks To Pinch	3

FERTILITY

Fertilize Through Mist?	None
Fertilizer Rate	100-150ppm N
EC Range	Moderate: (2.0-3.5 mS via SME)
pH Range	5.6-6.2

TEMPERATURE

Average Soil Temp	72-75°F (22-24°C)
Average Air Temp (Day)	75-80°F (24-27°C)
Average Air Temp(Night)	68-72°F (20-22°C)

IRRIGATION

Irrigation Frequency	Level 3: Keep media moderately moist with mild dry cycles
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LIGHT

Daylength Neutral?	Yes
Supplemental	None
Benefits From Shade?	No

POTENTIAL DISEASES

Botrytis, Rhizoctonia, Powdery Mildew

POTENTIAL PESTS

Spider Mites, Thrips, Whitefly

PGR SUGGESTIONS

- B-Nine (85% Daminozide) at 1500ppm can be applied to control stretch. The applications can be applied beginning 1 week after sticking.
- B-Nine (85% Daminozide) at 1500ppm + Florel (3.9% Ethephon) at 500ppm tank mix

CULTIVAR LIST

Burgundy Charme, Dark Red, Hot Pink Charme, Imperial Blue, Lavender, Peach, Purple, Red, Soft Pink Charme, Strawberry Charme, Violet Blue, White



TIPS

- Mist until roots begin to push into medium. Excessive misting can result in disease and nutrient leaching.
- Ensure light levels are at no less than 1,000-2,000 fc (10,500-21,500 lux) during rooting. After cuttings have established roots, increase light levels to 2,500-4,500 fc (27,000-48,500 lux) minimum.

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FINISHING

VERBENA EMPRESS™

Verbena x hybrida



CONTAINER SIZE	PLANTS PER POT	TRANSPLANT TO FINISH (WEEKS)
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4 in. (10 cm) and up **1** **4-8**

6 in. (15 cm) and up **2-3** **5-9**

10 in. (22 cm) and up **3-5** **7-10**

FERTILITY

Fertilizer Rate **150-200 ppm N**

EC Range **Moderate: (2.0-3.5 mS via SME)**

pH Range **5.8-6.3**

TEMPERATURE

Day Temperature **73-80°F (23-27°C)**

Night Temperature **60-68°F (16-20°C)**

IRRIGATION

Irrigation Frequency **Level 3: Keep media moderately moist with mild dry cycles**

LIGHT

Daylength Neutral? **Yes**

Optimum Light Level **5,000-8,000 fc (53,800-86,100 lux)**

Supplemental **None**

Benefits From Shade? **No**

PINCHING

Finishing Pinch? **Yes**

Transplant to Pinch (days) **7-14**

POTENTIAL DISEASES

Botrytis, Rhizoctonia, Powdery Mildew

POTENTIAL PESTS

Spider Mites, Thrips, Whitefly

PGR SUGGESTIONS

- Florel (3.9% Ethephon) spray at 300-500ppm and B-Nine (85% Daminozide) at 1500 to 2500ppm tank mix applied 1- 2 weeks after transplant will promote branching and can replace pinching. Additional applications can be made but delay flowering.
- B-Nine (85% Daminozide) at 2500ppm can be used to reduce plant stretch. Verbena also responds to negative DIF.



‘Strawberry Charme’

TIPS

- Excess phosphorus-containing fertilizer may cause soft growth and internode stretch.
- Low temperatures decelerate growth and may cause leaf yellowing. As with all Verbena, powdery mildew is best prevented and controlled by dry leaves and low humidity combined with preventative sprays and early detection.
- A hard Pinch (above the 4th or 5th set of leaves) once plant roots reach the edge of the finished container will promote basal branching. Additional pinching will improve plant fullness.

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FEATURES AND BENEFITS

VERBENA EMPRESS™

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KEY INFORMATION

Primary Common Name	Verbena
Consumer Watering Instructions	Water thoroughly when top 1 inch (3cm) of soil is dry.
Bloom Time	Blooms Spring to Autumn
Exposure	Full Sun to Part Sun
Height	6-10 inches (15-25 cm)
Garden Spacing	22-26 inches (56-66 cm)

DESCRIPTION

Empress® Verbena is moderately vigorous with a semi-upright habit and floriferous bloom set.



'Burgundy Charmé'

CONSUMER APPEAL

- Once established, Verbena is very cold and heat tolerant.
- Verbena not only attracts butterflies and hummingbirds, but are deer and rabbit resistant as well!

GARDEN ATTRIBUTES

- Appropriate for window boxes, patio containers, and especially hanging baskets.
- Can be grown in a wide range of soil conditions though prefers fertile, consistently moist, well drained soils.
- Verbena blooms almost nonstop from spring to fall and requires only a small amount of attention from gardeners.

NATIVITY

Of hybrid origin: Parental lineages native to North America and Asia.



'Dark Red'

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