ANNUAL

PROPAGATION

VERBENA WICKED

*Verbena x hybrida*

**TRAY & ROOTING**

<table>
<thead>
<tr>
<th>Form</th>
<th>Vegetative Cutting (URC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rooting Hormone?</td>
<td>No</td>
</tr>
<tr>
<td>Tray Size</td>
<td>50, 72, 84, 105</td>
</tr>
<tr>
<td>Plants Per Cell</td>
<td>1</td>
</tr>
<tr>
<td>Days In Mist</td>
<td>7-10</td>
</tr>
<tr>
<td>Wks. From Stick To Transplant</td>
<td>3-4</td>
</tr>
<tr>
<td>Propagation Pinch?</td>
<td>Yes</td>
</tr>
<tr>
<td>Weeks To Pinch</td>
<td>3</td>
</tr>
</tbody>
</table>

**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 |

**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 500ppm 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

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**CULTIVAR LIST**

Beauty Burgundy, Cool Blue, Cool Purple, Great Grape, Hot Pink, Mad Magenta, Pink Pepper, Purple, Rad Red

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**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 WICKED

Verbenaxhybrida

<table>
<thead>
<tr>
<th>CONTAINER SIZE</th>
<th>PLANTS PER POT</th>
<th>TRANSPLANT TO FINISH (WEEKS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 in. (10 cm) and up</td>
<td>1</td>
<td>4-8</td>
</tr>
<tr>
<td>6 in. (15 cm) and up</td>
<td>2-3</td>
<td>5-9</td>
</tr>
<tr>
<td>10 in. (22 cm) and up</td>
<td>3-5</td>
<td>7-10</td>
</tr>
</tbody>
</table>

FERTILITY

Fertilizer Rate | 150-200 ppm N |
EC Range | Moderate: (2.0-3.5 mS via SME) |
P 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.

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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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

Unique multicolor flowers add novelty and adventure to any garden.

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.