**ZONAL GERANIUM**

**PROPAGATION**

**PELARGONIUM CITRONELLA**

*Pelargonium × hortorum*

### TRAY & ROOTING

<table>
<thead>
<tr>
<th></th>
<th>Vegetative Cutting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td></td>
</tr>
<tr>
<td>Rooting Hormone</td>
<td>Yes</td>
</tr>
<tr>
<td>Tray Size</td>
<td>32, 52, 72, 102 strip</td>
</tr>
<tr>
<td>Plants Per Cell</td>
<td>1</td>
</tr>
<tr>
<td>Days In Mist</td>
<td>3-4</td>
</tr>
<tr>
<td>Wks. From Stick To Transplant</td>
<td>3-4</td>
</tr>
<tr>
<td>Pinch?</td>
<td>Yes</td>
</tr>
<tr>
<td>Days To Pinch</td>
<td>10-14</td>
</tr>
</tbody>
</table>

### FERTILITY

<table>
<thead>
<tr>
<th></th>
<th>Moderate: 100-150 ppm (20-10-20 constant feed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fertilize Through Mist?</td>
<td>No</td>
</tr>
<tr>
<td>Fertilizer Rate</td>
<td>Moderate (1.0-1.5 mS via SME)</td>
</tr>
<tr>
<td>EC Range</td>
<td>6.0-6.4</td>
</tr>
<tr>
<td>pH Range</td>
<td></td>
</tr>
</tbody>
</table>

### TEMPERATURE

<table>
<thead>
<tr>
<th>Vernalization Required?</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Soil Temperature</td>
<td>65-68°F (18-20°C)</td>
</tr>
<tr>
<td>Average Air Temperature</td>
<td>65-68°F (18-20°C)</td>
</tr>
</tbody>
</table>

### IRRIGATION FREQUENCY

Level 2: Keep media moderately moist with mild dry cycles

### LIGHT (SUPPLEMENTAL)

When light levels fall below 1000 fc (10,800 lux)

### SHADE

Keep light intensity between 700-1200 fc (7500-12900 lux) until callus formation, 2000-2500 fc (21500-26900 lux) during root initiation, and 2500-4000 fc (26900-43100 lux) for toning.

### POTENTIAL DISEASES

*Botrytis, Pythium, Rhizoctonia, Xanthomonas*

### POTENTIAL PESTS

thrips, whitefly, fungus gnats, spider mites

### PGR SUGGESTIONS

- **Diaminozide** (85%) at 1000-2000 ppm + **Chlormequat** (11.8%) at 750ppm tank mix for height control 14-21 days after stick

### TIPS

- Apply a 200 ppm IBA spray (or equivalent product) within 24 hours of sticking to aid root formation.
- ‘Citronella’ requires less mist and irrigation than other geraniums. Avoid over-misting and prolonged media saturation.

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**CULTIVAR LIST**

Citronella

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FINISHING

PELARGONIUM CITRONELLA

_Pelargonium x hortorum_

<table>
<thead>
<tr>
<th>CONTAINER SIZE</th>
<th>PLANTS PER POT</th>
<th>EARLY SEASON</th>
<th>MID SEASON</th>
<th>LATE SEASON</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 in. (10 cm)</td>
<td>1</td>
<td>7-9</td>
<td>6-8</td>
<td>5-7</td>
</tr>
<tr>
<td>6 in. (15 cm)</td>
<td>1-2</td>
<td>8-10</td>
<td>7-9</td>
<td>6-8</td>
</tr>
<tr>
<td>8 in. (19 cm)</td>
<td>2-3</td>
<td>8-11</td>
<td>7-9</td>
<td>6-9</td>
</tr>
<tr>
<td>10 in. (22 cm)</td>
<td>3-4</td>
<td>9-12</td>
<td>8-11</td>
<td>8-12</td>
</tr>
</tbody>
</table>

**FERTILITY**

- **Fertilizer Rate**: Moderate: 125-200 ppm N (15-5-15 at or similar calcium-nitrate formula alternated with 20-10-20)
- **EC Range**: High (2.0-2.5 mS via SME)
- **pH Range**: 6.0-6.4

**TEMPERATURE**

- **Day Temperature**: 65-75°F (18-24°C)
- **Night Temperature**: 62-65°F (17-18°C)

**IRRIGATION**

- **Irrigation Frequency**: Level 3: keep media moderately moist at all times

**LIGHT**

- **Daylength Neutral?**: Yes
- **Supplemental**: Optional
- **Benefits From Shade?**: No

**PINCHING**

- **Finishing Pinch?**: Yes

**POTENTIAL DISEASES**

- _Botrytis, Pythium, Rhizoctonia, Xanthomonas_

**POTENTIAL PESTS**

- thrips, whitefly, fungus gnats, spider mites

**PGR SUGGESTIONS**

- 750-1500 ppm Chloromequat (11.8%) as needed
- Ethephon (3.9%) at 350 ppm can be used for bud removal and branching; do not apply within 6-8 weeks of ship date

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**TIPS**

- Proper sanitation will help control _Botrytis, Pythium_ and _Rhizoctonia_. Avoid over-applications of mist and fertilizer; this will help control waterborne pathogens and limit the fungus gnats population.

- Consider direct-stick with callused cuttings to reduce overall production time by 1-2 weeks.
ZONAL GERANIUM

FEATURES AND BENEFITS

PELARGONIUM CITRONELLA

*Pelargonium x hortorum*

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DESCRIPTION

A unique zonal pelargonium grown primarily for its foliage and unmistakable fragrance.

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KEY GARDEN INFORMATION

<table>
<thead>
<tr>
<th>Feature</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure</td>
<td>Sun to Partial Shade</td>
</tr>
<tr>
<td>Height</td>
<td>18-22 inches (46-56 cm)</td>
</tr>
<tr>
<td>Garden Spacing</td>
<td>18-22 inches (46-56 cm)</td>
</tr>
<tr>
<td>Watering</td>
<td>Allow soil to dry slightly between thorough waterings.</td>
</tr>
</tbody>
</table>

Hardiness Zone: 10-12

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CONSUMER APPEAL

- Citronella pelargonium should be marketed and sold as a natural insect repellent with impeccable landscape performance.
- Finely textured cut-leaf foliage can add contrast and balance to bloom-heavy patio plants.

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GARDEN ATTRIBUTES

- If planted in the landscape, Pelargonium prefer rich well-drained soils. However, they can tolerate heavy clay soils if not overwatered.
- Pelargonium can be overwintered indoors for extended seasonal interest.

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NATIVITY

Of hybrid origin: parental lineages native to Southern Africa.

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