TRAY & ROOTING
Form  Vegetative Cutting
Rooting Hormone  Yes
Tray Size  32, 52, 72, 102 strip
Plants Per Cell  1
Days In Mist  7-10
Wks. From Stick To Transplant  3-4
Pinch?  No
Days To Pinch  N/A

FERTILITY
Fertilize Through Mist?  No
Fertilizer Rate  Moderate: 100-150 ppm N (20-10-20 constant feed)
EC Range  Moderate (1.0-1.5 mS via SME)
pH Range  6.0-6.4

TEMPERATURE
Vernalization Required?  No
Average Soil Temperature  65-68°F (18-20°C)
Average Air Temperature  65-68°F (18-20°C)

IRRIGATION FREQUENCY
Level 3: 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
- Daminozide (85%) at 1000-2000 ppm + Chloromequat (11.8%) at 750ppm tank mix for height control 14-21 days after stick
- Ethephon (3.9%) at 350-500 ppm can be used for bud removal and branching 14-21 days after stick; do not apply within 6-8 weeks of ship date.

CULTIVAR LIST
Berry Parfait, Bright Pink, Bright Red, Bright Violet, Cherry Rose, Evening Glow, Lavender Blue, Orange, Red, Rose Pink, Salmon, Salmon Chic, Tickled Pink, Watermelon, White

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ZONAL GERANIUM

FINISHING

PELARGONIUM PATRIOT

*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>
</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 4: Keep media moderately moist at all times

**LIGHT**

- **Daylength Neutral?**: Yes
- **Supplemental**: Optional

- **Benefits From Shade?**: No

**PINCHING**

- **Finishing Pinch?**: No

**POTENTIAL DISEASES**

Botrytis, Pythium, Rhizoctonia, Xanthomonas

**POTENTIAL PESTS**

thrips, whitefly, fungus gnats, spider mites

**PGR SUGGESTIONS**

- 750-1500 ppm Chlormequat (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.

---

‘Salmon Chic’

**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 gnat population.
- Consider direct-stick with callused cuttings to reduce overall production time by 1-2 weeks.

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ZONAL GERANIUM
FEATURES AND BENEFITS

PELARGONIUM PATRIOT
*Pelargonium x hortorum*

DESCRIPTION

Patriot is an early season zonal geranium series with a vigorous growth habit.

KEY GARDEN INFORMATION

<table>
<thead>
<tr>
<th>Exposure</th>
<th>Full Sun to Partial Shade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>18-24 inches (46-61 cm)</td>
</tr>
<tr>
<td>Garden Spacing</td>
<td>18-24 inches (46-61 cm)</td>
</tr>
<tr>
<td>Watering instructions</td>
<td>Allow soil to dry slightly between thorough waterings.</td>
</tr>
<tr>
<td>Hardiness Zone</td>
<td>10-12</td>
</tr>
</tbody>
</table>

CONSUMER APPEAL

- The vigorous growth of Patriot makes it a perfect Zonal for mass-plantings and landscape applications.
- Tolerant of hot and humid conditions.

GARDEN ATTRIBUTES

- If planted in the landscape, Pelargonium prefer rich well-drained soils. However, they can tolerate heavy clay soils if not overwatered.
- Although not favored by bees, the long bloom season and bright flowers of Pelargonium naturally attract hummingbirds. Additionally, their recognizable foliage aroma is a natural deterrent to rabbits, deer, and herbivorous insects.
- Pelargonium can be overwintered indoors for extended seasonal interest.

NATIVITY

Of hybrid origin: parental lineages native to Southern Africa.

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