

ZONAL GERANIUM

## PROPAGATION

# PELARGONIUM PATRIOT

*Pelargonium x hortorum*



### TRAY & ROOTING

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

### FERTILITY

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

### TEMPERATURE

Vernalization Required?	<b>No</b>
Average Soil Temperature	<b>65-68°F (18-20°C)</b>
Average Air Temperature	<b>65-68°F (18-20°C)</b>

### 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

- *Daminozide* (85%) at 1000-2000 ppm + *Chlormequat* (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



Patriot Salmon

### TIPS

- Apply a 200 ppm IBA spray (or equivalent product) within 24 hours of sticking to aid root formation.
- Patriot is a comparably vigorous series, but it is very responsive to PGR applications.
- Only mist enough to keep leaves turgid.

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ZONAL GERANIUM

FINISHING

# PELARGONIUM PATRIOT

*Pelargonium x hortorum*



CONTAINER SIZE	PLANTS PER POT	EARLY SEASON	MID SEASON	LATE SEASON
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4 in. (10 cm) 1 7-9 6-8 5-7

6 in. (15 cm) 1-2 8-10 7-9 6-8

## 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? **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



Patriot Orange

## 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

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

## 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.



Patriot Rose Pink



Patriot White

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