### TRAY & ROOTING

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Vegetative Cutting</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>7-10</td>
</tr>
<tr>
<td>Wks. From Stick To Transplant</td>
<td>3-4</td>
</tr>
<tr>
<td>Pinch?</td>
<td>No</td>
</tr>
<tr>
<td>Days To Pinch</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### FERTILITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fertilize Through Mist?</td>
<td>Optional</td>
</tr>
<tr>
<td>Fertilizer Rate</td>
<td>Moderate: 100-150 ppm N (20-10-20 constant feed)</td>
</tr>
<tr>
<td>EC Range</td>
<td>Moderate (1.0-1.5 mS via SME)</td>
</tr>
<tr>
<td>pH Range</td>
<td>6.0-6.4</td>
</tr>
</tbody>
</table>

### TEMPERATURE

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vernalization Required?</td>
<td>No</td>
</tr>
<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 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 750-1500 ppm + Chlormequat (11.8%) at 600ppm 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

- Dark Red, Hot Pink, Light Salmon, Orange, Purple, True Red, White

### TIPS

- Apply a 200 ppm IBA spray (or equivalent product) within 24 hours of sticking to aid root formation.
- Only mist enough to keep leaves turgid.

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Tech.NA@DummenOrange.com  
614-850-9551  
DummenOrange.com
**FINISHING**

**PELARGONIUM SUMMER IDOLS®**

_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>7-8</td>
<td>6-7</td>
<td>5-6</td>
</tr>
<tr>
<td>6 in. (15 cm)</td>
<td>1-3</td>
<td>8-9</td>
<td>7-8</td>
<td>6-7</td>
</tr>
<tr>
<td>10 in. (22 cm)</td>
<td>3-5</td>
<td>10-12</td>
<td>9-11</td>
<td>8-10</td>
</tr>
<tr>
<td>12 in. (30 cm)</td>
<td>4-6</td>
<td>11-13</td>
<td>10-12</td>
<td>9-11</td>
</tr>
</tbody>
</table>

**FERTILITY**

Fertilizer Rate

Moderate: 125-200 ppm N (15-5-15 at or similar calcium-nitrate formula altered 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.

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DummenOrange.com
DESCRIPTION

Summer Idols® is an early season zonal geranium series with medium vigor.

KEY GARDEN INFORMATION

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

CONSUMER APPEAL

- Bright colors and a uniformly-high flower count gives this series high impulse appeal at retail.
- 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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