### TRAY & ROOTING

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Vegetative Cutting (URC)</td>
</tr>
<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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fertilize Through Mist?</td>
<td>50-75ppm N</td>
</tr>
<tr>
<td>Fertilizer Rate</td>
<td>100-150ppm N</td>
</tr>
<tr>
<td>EC Range</td>
<td>Moderate: (2.0-3.5 mS via SME)</td>
</tr>
<tr>
<td>pH Range</td>
<td>5.5-6.0</td>
</tr>
</tbody>
</table>

### TEMPERATURE

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Soil Temp</td>
<td>70-75°F (21-24°C)</td>
</tr>
<tr>
<td>Average Air Temp (Day)</td>
<td>70-75°F (21-24°C)</td>
</tr>
<tr>
<td>Average Air Temp(Night)</td>
<td>68-72°F (20-22°C)</td>
</tr>
</tbody>
</table>

### IRRIGATION

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irrigation Frequency</td>
<td>Level 3: Keep media moderately moist with mild dry cycles</td>
</tr>
</tbody>
</table>

### LIGHT

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daylength Neutral?</td>
<td>Yes</td>
</tr>
<tr>
<td>Supplemental</td>
<td>None</td>
</tr>
<tr>
<td>Benefits From Shade?</td>
<td>No</td>
</tr>
</tbody>
</table>

### POTENTIAL DISEASES

Botrytis, Pythium, Rhizoctonia

### POTENTIAL PESTS

Aphids, Thrips, Whitefly

### PGR SUGGESTIONS

- To stimulate branching and promote uniformity, apply 250 ppm Florel (3.9% Ethephon) as soon as cuttings show roots (as early as day 7).
- Tank mix 250ppm Florel (3.9% Ethephon) + 500ppm B-Nine (85% Daminozide)
- 750ppm B-Nine (85% Daminozide)

### TIPS

- After sticking, water the cuttings uniformly to help “seat” them in the soil media. Good soil to stem contact is important for rooting. Over-misting or delayed mist reduction leads to slower rooting and causes iron deficiency.
- Petunias can be pinched in the liner stage to prevent stretch and promote basal branching but the grower must determine if this is necessary.

### CULTIVAR LIST


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WE'RE HERE TO HELP YOU GROW
Tech.NA@DummenOrange.com
614-850-9551
DummenOrange.com
ANNUAL
FINISHING
PETUNIA SURPRISE®
*Petunia x hybrida*

<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>3-5</td>
</tr>
<tr>
<td>Gallon (16 cm)</td>
<td>1</td>
<td>5-6</td>
</tr>
<tr>
<td>10 in. (22 cm) and up</td>
<td>3</td>
<td>8-12</td>
</tr>
</tbody>
</table>

**FERTILITY**
- Fertilizer Rate: 200-250 ppm N
- EC Range: High: (3.5-5 mS via SME)
- pH Range: 5.6-6.2

**TEMPERATURE**
- Day Temperature: 65-73°F (18-23°C)
- Night Temperature: 68-75°F (20-24°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 Benefits From Shade?: None
- No

**PINching**
- Finishing Pinch?: No
- Transplant to Pinch (days): N/A

**POTENTIAL DISEASES**
- Botrytis, Pythium, Rhizoctonia

**POTENTIAL PESTS**
- Aphids, Thrips, Whitefly

**PGR SUGGESTIONS**
- 500ppm B-Nine (85% Diaminozide) + 750ppm Cycoceb (11.8% Chlormequat) as a tank mix
- Bonzi (0.4% Paclobutrazol) drench 0.5-1ppm when plants have reached saleable size to tone for retail.

'Tips'
- High light and a negative DIF will reduce stretch.
- Fertilizers with increased iron and micronutrients are best.
- Allow media to dry moderately between waterings but do not allow plants to wilt. Avoid saturated media. Petunias are susceptible to root diseases if overwatered.
- Avoid high-rate PGR applications; they can distort the finished habit. Use of PGRs can delay flowering by up to 2 weeks, avoid applications when flower buds are present.
- Pinch after transplant ONLY when liner has not been treated or soft-pinched for shaping.

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ANNUAL

FEATURES AND BENEFITS

PETUNIA SURPRISE®

Petunia x hybrida

KEY INFORMATION

- **Primary Common Name**: Petunia
- **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**: 8-12 inches (20-30 cm)
- **Garden Spacing**: 18-32 inches (46-81 cm)

DESCRIPTION

Grows up and out, creating a waterfall or ripple effect depending on basket or garden application.

‘Surprise Purple Sky’ was a “Best in Class” performer at the Colorado State University Trial Gardens in 2016. Surprise Blue Sky was a University of Minnesota Top Performer in 2017.

CONSUMER APPEAL

- Attractive to both hummingbirds and butterflies.

GARDEN ATTRIBUTES

- Early flowering.
- Versatile uses ranging from containers, to hanging baskets, to landscape plantings.
- Consider sheering off 10-15% of the outer foliage during the heat of the summer to promote reblooming.

NATIVITY

Of hybrid origin: Petunia genus native to South America.