ANNUAL

PROPAGATION

BEGONIA RHINE

Begonia x hiemalis

TRAY & ROOTING

Form: Vegetative Cutting (URC)
Rooting Hormone?: No
Tray Size: 102 strip, spaceable
Plants Per Cell: 1
Days In Mist: 14-21
Wks. From Stick To Transplant: 4-5
Propagation Pinch?: No
Weeks To Pinch: N/A

FERTILITY

Fertilize Through Mist?: None
Fertilizer Rate: 50-100ppm N
EC Range: Low: (0.8-2.0 mS via SME)
pH Range: 5.6-6.2

TEMPERATURE

Average Soil Temp: 68-72°F (20-22°C)
Average Air Temp (Day): 70-75°F (21-24°C)
Average Air Temp(Night): 68-72°F (20-22°C)

IRRIGATION

Irrigation Frequency: Level 2: Allow media to dry moderately between thorough waterings

LIGHT

Daylength Neutral?: No
Supplemental: 14 hour days
Benefits From Shade?: Yes

POTENTIAL DISEASES

Botrytis, Xanthomonos, Powdery Mildew

POTENTIAL PESTS

White Fly, Mites, Thrips

PGR SUGGESTIONS

• 500ppm Cycocel/Citadel (11.8% Chlormequat)

TIPS

• Unpack and sort cuttings in a cooler at 54°F (12°C). Store in cooler overnight if not stuck immediately.
• Use care when sticking to not cover the apical growing point of the cutting by arranging the large leaves in one direction.
• Apply only enough mist to keep the cuttings turgid. Mist may be required both day and night for the first 10-14 days. Once cuttings begin to root, mist should be reduced and completely off by around day 20.
• Between September 21 and March 21, cuttings must receive long photo periods during propagation to prevent premature flowering. Mum lighting from 10pm to 2am or HID supplemental light from sundown to 2 am can be

CULTIVAR LIST

Borias, Oh So Orange, Valentine Red

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ANNUAL
FINISHING

BEGONIA RHINE

*Begonia x hiemalis*

<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)</td>
<td>1</td>
<td>6-9</td>
</tr>
<tr>
<td>6 in. (15 cm)</td>
<td>2-3</td>
<td>9-12</td>
</tr>
<tr>
<td>10 in. (22 cm) and up</td>
<td>4-5</td>
<td>10-14</td>
</tr>
</tbody>
</table>

FERTILITY

Fertilizer Rate
100-150 ppm N

EC Range
Moderate: (2.0-3.5 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?
No

Optimum Light Level
3,000-7,000 fc (32,300-75,300 lux)

Supplemental
Night interruption

Benefits From Shade?
Yes

PINCHING

Finishing Pinch?
No

Transplant to Pinch (days)
N/A

POTENTIAL DISEASES

Botrytis, Xanthomonon, Powdery Mildew

POTENTIAL PESTS

White Fly, Mites, Thrips

PGR SUGGESTIONS

• 500-1000ppm Cycoel/Citadel (11.8% Chloromequat)
• Low rates of B-Nine (85% Daminozide) at 1000-1500ppm, or Cycoel/Citadel (11.8% Chloromequat) at (250-350ppm), or a tank mix spray can be applied to control growth as needed.

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*Valentine Red*
FEATURES AND BENEFITS

BEGONIA RHINE

*Begonia x hiemalis*

**KEY INFORMATION**

<table>
<thead>
<tr>
<th>Primary Common Name</th>
<th>Begonia</th>
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</thead>
<tbody>
<tr>
<td>Consumer Watering</td>
<td>Keep soil evenly moist, but</td>
</tr>
<tr>
<td>Instructions</td>
<td>not saturated.</td>
</tr>
<tr>
<td>Bloom Time</td>
<td>Blooms Spring to Summer</td>
</tr>
<tr>
<td>Exposure</td>
<td>Part Shade to Full Shade</td>
</tr>
<tr>
<td>Height</td>
<td>12-18 inches (30-46 cm)</td>
</tr>
<tr>
<td>Garden Spacing</td>
<td>8-14 inches (20-36 cm)</td>
</tr>
</tbody>
</table>

**DESCRIPTION**

Uniform series with excellent garden performance and showy flowers.

‘Rhine Oh So Orange’ was runner-up at the Denver-based Welby Trial Gardens open house in 2016.

**CONSUMER APPEAL**

- Wonderful colors that pop against deep begonia foliage.
- Resistant to rabbits and the allelopathic biochemicals produced by black walnut trees.

**GARDEN ATTRIBUTES**

- Ideal for patio containers, but can perform well in some landscapes as well.
- Prefers moist, well drained soils.
- Wonderfully colorful blooms produced continuously all summer long that are perfect for high traffic areas.

**NATIVITY**

Of hybrid origin: parental lineages native to South and Central America, Asia, and Africa.

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