

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
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LIGHT

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

POTENTIAL DISEASES

Botrytis, Xanthomonas, 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

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FINISHING
BEGONIA RHINE

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CONTAINER SIZE	PLANTS PER POT	TRANSPLANT TO FINISH (WEEKS)
4 in. (10 cm)	1	6-9
6 in. (15 cm)	2-3	9-12
10 in. (22 cm) and up	4-5	10-14

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

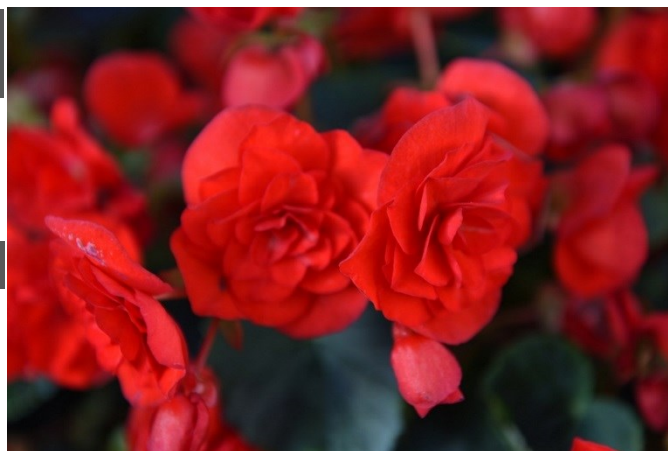
LIGHT	
Daylength Neutral?	No
Optimum Light Level	3,000-7,000 fc (32,300-75,300 lux)
Supplemental	Night interruption
Benefits From Shade?	Yes

PINCHING	
Finishing Pinch?	No
Transplant to Pinch (days)	N/A

POTENTIAL DISEASES
Botrytis, Xanthomonas, Powdery Mildew

POTENTIAL PESTS
White Fly, Mites, Thrips

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



'Valentine Red'

TIPS

- Grow plants under long days to build the chassis. Light levels should not exceed 4000 fc (43,100 lux). A steady environment with little fluctuation in temperature and moisture is important during vegetative growth. Buds that develop during this phase should be removed manually to promote vegetative growth. The plant should be 2/3 the desired finish size before initiating flower.
- Several environmental/production factors can be used to initiate flowers once the plants are 2/3 the desired finish size. Black cloth for 14 days, moisture stress (letting the plants slightly wilt several times before watering), low fertility (withholding fertilizer application for 14 days), a plant growth regulator application, or a combination of these tactics. Plants should finish in 4-6 weeks after flower initiation. After induction, return plants to the same production conditions used during vegetative growth.

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FEATURES AND BENEFITS

BEGONIA RHINE

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KEY INFORMATION

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

DESCRIPTION

Uniform series with excellent garden performance and showy flowers.

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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