

PERENNIAL

PROPAGATION

Viola Spring Morning Series

Viola cornuta



TRAY & ROOTING

Form	Unrooted Cuttings (URC)
Rooting Hormone	Yes
Tray Size	72, 105
Plants Per Cell	1
Days In Mist	5-7
Wks. From Stick To Transplant	5-6
Pinch?	Yes
Days from stick to pinch	14-21

FERTILITY

Fertilize Through Mist?	No
Fertilizer Rate	100-150 ppm N (20-6-22 or 22-5-16 [15-0-15 under low-light conditions])
EC Range	2.0-3.5 mS via SME
pH Range	5.4-5.8

TEMPERATURE

Average Soil Temperature	65-72°F (18-22°C)
Average Air Temperature	58-65°F (14-18°C)

IRRIGATION

Irrigation Frequency	Level 3: Keep media moderately moist with mild dry cycles
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LIGHT

Supplemental	No
Benefits From Shade?	No

POTENTIAL DISEASES

Alternaria, Botrytis, Pythium

POTENTIAL PESTS

Aphids, Fungus Gnats, White Fly

PGR SUGGESTIONS

- Optional 300-500 ppm Florel (3.9% Ethephon)



TIPS

- Plants are sensitive for high pH and high salt levels. Monitor pH and EC regularly to avoid any issues.
- Over misting can lead to pronounced nutrient deficiencies; monitor mist carefully to avoid consistently saturated media. Tenting has proven to be an effective strategy for some growers.

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Tech.NA@DummenOrange.com

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FINISHING

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VERNALIZATION

Vernalization Required? **Beneficial**

Vernalization Duration
Minimum **6-8 weeks**

Vernalization Temperature **35-40°F (1.6-4.4°C)**

CONTAINER SIZE	PLANTS PER POT	TRANSPLANT TO FINISH (WEEKS)
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4 in./qtr. (10-12 cm)	1	8-10
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6 in./Gal. (15-16 cm)	2-3	9-12
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FERTILITY

Fertilizer Rate **200-250 ppm N (20-6-22 or 22-5-16 [15-0-15 under low-light conditions])**

EC Range **2.0-3.5 mS via SME**

pH Range **5.8-6.3**

TEMPERATURE

Day Temperature **45-55°F (7-13°C)**

Night Temperature **35-45°F (2-7°C)**

IRRIGATION

Irrigation Frequency **Level 3: Keep media moderately moist with mild dry cycles**

LIGHT

Photoperiodic requirements **Short Day Obligate: Less Than 12 Hours Daily**

Supplemental? **None**

Benefits From Shade? **No**

PINCHING

Finishing Pinch? **No**

Transplant to pinch (days) **N/A**

POTENTIAL DISEASES

Alternaria, Botrytis, Pythium

POTENTIAL PESTS

Aphids, Fungus Gnats, White Fly

PGR SUGGESTIONS

- 5-40 ppm Bonzi (0.4% Paclobutrazol) spray.
- 5-8 ppm Sumagic (0.055% Uniconazole)



TIPS

- Finish crop as cool as possible with low day and night temperatures and high light.
- Cooling for 4-5 weeks is required for superior flowering at 40°F (4.4°C)

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FEATURES AND BENEFITS

Viola Spring Morning

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KEY INFORMATION

First Year Flowering?	Yes
Bloom Time	Early Spring
Exposure	Full Sun to Shade
Hardiness Zone	5-8
Height	6-8 inches (15-20 cm)
Width	8-14 inches (20-36 cm)

DESCRIPTION

Great early perennial with semi-evergreen foliage and pansy-like flowers that offer more than an annual Viola. Will reseed regularly and establish sporadic colonies wherever growing conditions are favorable.

CONSUMER APPEAL

- A great cool-season perennial that will bloom in the spring, stop blooming during the summer heat, and bloom again in the autumn. A delightful way to book-end the growing season.
- Violas can be good pollinator plants, they are also resistant to deer and the allelopathic bio-chemicals produced by black walnut trees.

GARDEN ATTRIBUTES

- Viola cornuta features cute single flowers that can be used as solo cut flowers. The flowers are also edible.
- A nice choice for perennial borders, containers, hanging baskets, window boxes, spring centerpiece displays, or sprinkled throughout the garden to declare "spring is here!".
- Prefers consistently moist soils that are relatively well-drained and rich in organic matter. Can be grown in clay soils if in full sun and not overwatered.

NATIVITY

Western Europe

COMPANION PLANTS

Alstroemeria, Monarda, Eupatorium (Ageratina), Polemonium, Phlox, Dianthus, Veronica

COMMON NAME(S)

Violet, Horned Violet, Horned Pansy

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