

PERENNIAL

PROPAGATION

Coreopsis Radiant Series

Coreopsis grandiflora



TRAY & ROOTING

Form	Unrooted Cuttings (URC)
Rooting Hormone	IBA @ 500-1000ppm
Tray Size	72, 105
Plants Per Cell	1
Days In Mist	5-7
Wks. From Stick To Transplant	4-5
Pinch?	Yes
Days from stick to pinch	14-21

FERTILITY

Fertilize Through Mist?	No
Fertilizer Rate	50-75 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	5.8-6.2

TEMPERATURE

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

IRRIGATION

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

Supplemental	Optional
Benefits From Shade?	No

POTENTIAL DISEASES

Bacterial Leaf Spot, Botrytis, Powdery Mildew

POTENTIAL PESTS

Aphids

PGR SUGGESTIONS

- Optional 300-500 ppm Florel (3.9% Ethephon)
- Optional 1500-2500 ppm B-Nine (85% Daminozide)



TIPS

- An IBA-based rooting hormone at 500-1000 ppm can be applied as a powder or spray. This will ensure swift and uniform rooting.
- After rooting, liners can be kept at 35-45°F (1.6-7.2°C) to avoid stretching.

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FINISHING

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VERNALIZATION

Vernalization Required?	No
Vernalization Duration Minimum	N/A
Vernalization Temperature	N/A

CONTAINER SIZE	PLANTS PER POT	TRANSPLANT TO FINISH (WEEKS)
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6 in./Gal. (15-16 cm)	1	6-8
8-10 in./2-3 Gal. (20-25 cm)	3	9-12

FERTILITY

Fertilizer Rate	150-200 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	5.8-6.2

TEMPERATURE

Day Temperature	65-75°F (18-24°C)
Night Temperature	55-65°F (13-18°C)

IRRIGATION

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

Photoperiodic requirements	Long Day Facultative: 12+ Hours Daily
Supplemental?	Optional
Benefits From Shade?	No

PINCHING

Finishing Pinch?	Optional
Transplant to pinch (days)	14-21

POTENTIAL DISEASES

Bacterial Leaf Spot, Botrytis, Powdery Mildew

POTENTIAL PESTS

Aphids

PGR SUGGESTIONS

- 1500-2500 ppm B-Nine (85% Daminozide)
- 3-4 ppm Sumagic (0.055% Uniconazole)

TIPS

- Proper spacing and fertilization is required to maintain compact habit and large flower size.
- Dry moderately between waterings to limit stretch and tone plant.
- Day length extension or night interruption can force flowering.

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FEATURES AND BENEFITS

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KEY INFORMATION

First Year Flowering?	Yes
Bloom Time	Spring to Late Summer
Exposure	Full Sun
Hardiness Zone	5-9
Height	12-14 inches (30-36 cm)
Width	14 inches (36 cm)

DESCRIPTION

COMPANION PLANTS

Gaillardia, Salvia, Solidago, Achillea, Lavandula, Perovskia, Gaura, Scabiosa, Penstemon

COMMON NAME(S)

tickseed, calliopsis, coreopsis

CONSUMER APPEAL

- The showy golden flowers are a dramatic beacon for bees and butterflies.
- Native to prairies, glades, roadsides, and open woods throughout North America, this plant is very drought tolerant once established. Additionally, it is deer resistant.

GARDEN ATTRIBUTES

- Although not particularly fragrant, coreopsis make good cut flowers, especially in rustic arrangements.
- Coreopsis is the ultimate perennial for pollinator gardens, borders, naturalized areas, meadow gardens, prairie gardens, cottage gardens and even in mixed container displays.
- Prefers well drained soil where it can survive in dry to moderately moist soils. Can tolerate clay as long as it does not receive too much moisture.
- The best way to promote re-blooming is to aggressively shear the plants back after their initial bloom. This will promote fresh new growth full of vitality.

NATIVITY

Native to North, Central, and South America though the majority of ancestral species are centered in modern day USA.

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