



Celosia Neo™ Series

(*Celosia cristata*)

Cut Flowers Culture (revised 02/25/20)

Grow Your Margin, Grow Your Sales. Neo lets you grow over a longer period through the year and yield more usable stems from every sq. meter/sq. foot. Ship out better quality *C. cristata* and give florists a product that's easier to arrange and easier to sell. Less long-day sensitive, making it easier to produce over a longer period during the year for most growers. Features unique colours and a much better leaf habit. Easier to work with for bouquets or flower arrangements due to smaller leaves.

General Information

Exposure	Bloom Season	Height	Spread	Spacing
Sun	Spring, Late Spring, Summer, Late Summer	28-40 in. (71-102 cm)	-	-

Germination

Seed Form	Recommended Plug Size	Seeds/Cell	Plug Crop Weeks	Days to Germinate	Initial Media pH/EC	Cover Seed
PEL	288	1	2-3	3-4	5.8-6.2 pH 0.75 mmhos/cm	Light cover

Plug Production

	Stage 1	Stage 2	Stage 3	Stage 4
Moisture	Level 4	Level 4	Level 3-4	Level 3-4
Temperature	68-72°F (20-22°C)	68-72°F (20-22°C)	68-72°F (20-22°C)	68-72°F (20-22°C)
Light	Light	1,000-2,500 f.c. (10,800-26,900 Lux)	1,000-2,500 f.c. (10,800-26,900 Lux)	2,500-5,000 f.c. (26,900-53,800 Lux)
Fertilizer	Less than 100 ppm N - Less than 0.7 EC	Less than 100 ppm N - Less than 0.7 EC	100 to 175 ppm N - 0.7 to 1.2 EC	100 to 175 ppm N - 0.7 to 1.2 EC

Propagation Key Tips

Quantitative short-day plant. Flowers will initiate under short days. Celosia makes a taproot and is sensitive to root damage, which will result in early bud formation, deformed flowers and less uniformity. Therefore, plant before the plugs get rootbound. Maintain a constantly moist media, especially for the first 2 weeks after transplanting to prevent premature flowering.

Growing on to Finish

Growing on Temperature	Target Media pH/EC	Fertilizer	Daylength
(day) 60-61°F (16°C) (night) 59°F (15°C) Before flower development: (day) 65-75°F (18-24°C) (night) 63-65°F (17-18°C)	5.8-6.5 pH 0.75 mmhos/cm	100 to 175 ppm N - 0.7 to 1.2 EC	Facultative Short Day

Daylength Notation

Quantitative short-day plant. Flowers will initiate faster under short days.

Crop Scheduling

Crop Type	Season	Density	Crop Time
-	-	6-8 plants/ft ² (65-86 plants/m ²)	8-12 weeks

Fertilizer Notation

Celosia is susceptible to salt and high EC.

Chemical Sensitivity

PGRs are generally not recommended. If needed to control the excessive stem length, PGRs can be used. Celosia is responsive to B-Nine/Alar (daminozide) 2,000 ppm (2.5 g/l 85% formulation or 3.0 g/l of 64% formulation) when excessive stem length is expected. Starting at 12 to 20 in./30 to 50 cm height, depending on weather. A weekly spray is advised. At final desired lengths, a spray with B-Nine/Alar (daminozide) 3,250 ppm (3.8 g/l 85% formulation or 5.0 g/l of 64% formulation) could be given to stop the plant growing further.

Common Problems

Celosia cristata is very sensitive to Thrips. Zero tolerance is strongly recommended. Start spray program as soon as possible after planting. Other insects: Aphids, Spider Mites, Leaf Miners Diseases: Powdery Mildew, Fusarium, Botrytis; it's recommended to treat preventively against Botrytis one week after planting.

Finishing Key Tips

We recommend to give the plants a short-day treatment for 3 to 4 weeks after transplant for the best uniformity and quality crop. After the short-day treatment, plants can be grown in long days. Celosia makes a taproot and is sensitive to root damage, which will result in early bud formation, deformed flowers and less uniformity. Therefore, plant before the plugs get rootbound. Maintain a constantly moist media, especially for the first 2 weeks after transplanting, to prevent premature flowering.

NOTE: Growers should use the information presented here as guidelines only. PanAmerican Seed recommends that growers conduct a trial of products under their own conditions. Crop times will vary depending on the climate, location, time of year, and greenhouse environmental conditions. It is the responsibility of the grower to confirm the treatment is available in their region as well as read and follow all the current label directions relating to the products. Nothing herein shall be deemed a warranty or guaranty by PanAmerican Seed of any products listed herein. PanAmerican Seed's terms and conditions of sale shall apply to all products listed herein.

Variety Pictures



Gold



Orange



Pink



Red



Rose



BloomStudios.

WITH PANAMERICAN SEED®

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