

Celosia Sunday™ Series

(*Celosia plumosa*)

Cut Flowers Culture (revised 02/24/19)

Planting density: 6 to 8 plants/ft.² (64 to 80 plants/m²)

Best for: Greenhouse, high tunnel

Floral selection guide: Filler, line, volume

Plug crop time: 2 to 3 weeks

Transplant to finish: 12 to 16 weeks

- First professional cut version of the popular plume-shaped celosia.
- Full plumes and long, strong stems enhance high-end retail mixed bouquets.
- Short, programmable production time and high yield – ideal for high-density programs.
- Excellent shippability and vase life.

General Information

Exposure	Bloom Season	Height	Spread	Spacing
Sun	Spring, Late Spring, Summer, Late Summer, Autumn	28-40 in. (71-102 cm)	5 in. (13 cm)	5-7 in. (13-18 cm)

Germination

Seed Form	Recommended Plug Size	Seeds/Cell	Plug Crop Weeks	Days to Germinate	Initial Media pH/EC	Cover Seed
COT	288	1	2-3	3-4	5.8-6.5 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	
Temperature	77°F (25°C)	72-77°F (22-25°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. The optimum daylength for Sunday to reach the appropriate stem length lies between 12 to 13 hours. 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	Less than 100 ppm N - Less than 0.7 EC	Facultative Short Day

Daylength Notation

Will initiate flowers faster in short days. The optimum daylength for Celosia Sunday to reach the appropriate stem length is between 12 to 13 hours. Under short-day conditions provide daylength extension up to 13 hours to allow plants to elongate and to prevent early flowering. When daylength is over 13 hours, short-day treatments can be applied. Provide a dark period for a minimum of 12 hours for 5 to 6 weeks. Do not start short days until one week after planting.

Crop Scheduling

Crop Type	Season	Density	Crop Time
-	-	6-8 plants/ft ² (65-86 plants/m ²)	12-16 weeks

Fertilizer Notation

Celosia is susceptible to salt and high EC.

Chemical Sensitivity

PGRs are generally not recommended. Use if needed to control excessive stem length. 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

Insect: Aphids, Thrips, Spider Mites, Leaf Miners Disease: Powdery Mildew, Botrytis; it's recommended to treat preventively against Botrytis one week after transplanting.

Finishing Key Tips

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



Bright Pink



Cherry



Dark Pink



Gold



Orange



Purple



Red



Wine Red



Yellow



Mixture
Improved

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