

Celosia Celway™ Series

(*Celosia spicata*)

Cut Flowers Culture (revised 01/23/21)

One central spiky plume is surrounded by several smaller spikes for a well-filled look. Short, programmable production time. Suitable for high-density production. Strong stems with small top leaves allow for good sleeving and shipability.

General Information

Cultivation Type	Usage	Stem Length	Timing Group
Greenhouse, Tunnel, Field grown	Filler	40-48 in. (102-122 cm)	N/A

Germination

Seed Form	Recommended Plug Size	Seeds/Cell	Plug Crop Weeks	Days from 50% to maximum germination	Initial Media pH/EC (1:2)	Cover Seed
PEL	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	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. The optimum daylength for Celway 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

Target Media pH/EC (1:2)	Fertilizer	Daylength
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

Facultative short-day plant. Flowers will initiate faster under short days. The optimum daylength for Celway to reach the maximum stem length lies between 12 to 13 hours, but will perform well under longer daylengths.

Crop Scheduling

Cultivation Type	Support	Temperature	Density	Crop Time
Field grown	Recommended	18-27°C/65-80°F (day) 16-21°C/60-70°F (night)	6-8 plants/ft² (65-86 plants/m²)	8-10 weeks
Tunnel	Recommended	18-27°C/65-80°F (day) 16-21°C/60-70°F (night)	6-8 plants/ft² (65-86 plants/m²)	8-12 weeks

Fertilizer Notation

Celosia is susceptible to high salt levels.

Common Problems

Insect: Aphids, Thrips, Spider Mites, Leafminers Disease: Powdery Mildew, Botrytis

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.

Harvest

Harvest stems when more than half of the flowers are completely open.

Post Harvest

Strip 50-75% foliage. Use distilled water; no need for hydration or holding solutions. Avoid cold storage if possible.

Vase Life

7-14 days

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



Orange



Purple



Red



Salmon



Terracotta



White



Mixture

PanAmericanSeed™

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