

## Celosia Bombay Series

(*Celosia cristata*)

Cut Flowers Culture (revised 11/04/19)

**Planting density:** 6 to 8 plants/ft.<sup>2</sup> (64 to 80 plants/m<sup>2</sup>)

**Best for:** Greenhouse

**Plug crop time:** 2 to 3 weeks

**Transplant to finish:** 10 to 14 weeks

- Full colour assortment with programmable production – good for economical, high-density programs.
- High yields, strong stems and few off-shoot flowers.
- Flowers hold colour well and are well-suited to dried use.

### General Information

Exposure	Bloom Season	Height	Spread	Spacing
Partial Sun	Spring, 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
<b>Moisture</b>	Level 4	Level 4	Level 3-4	Level 3-4
<b>Temperature</b>	68-72°F (20-22°C)	68-72°F (20-22°C)	68-72°F (20-22°C)	68-72°F (20-22°C)
<b>Light</b>	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)
<b>Fertilizer</b>	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 Bombay 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) 61-60°F (16°C) (night) 59°F (15°C) <b>Before flower development:</b> (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

The optimum daylength for Bombay to reach the appropriate stem length lies between 12 to 13 hours.

## Crop Scheduling

Crop Type	Season	Density	Crop Time
-	-	6-8 plants/ft <sup>2</sup> (65-86 plants/m <sup>2</sup> )	10-14 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

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



Bronze



Cherry



Fidor



Figo



Fiora



Fire



Firosa



Fivio



Green



Pink



Purple

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