Celosia Dracula

GrowerFacts Extra (Photoperiod & PGR)

Additional Culture Research

from

PanAmerican Seed®

Celosia Dracula

Photoperiod and PGR, published 2017

PanAmerican Seed.

ANNUALS

INTRODUCTION

To determine the recommended photoperiod and PGR for Celosia Dracula.

MATERIALS AND METHODS

- Sown: week 38
- Plug tray size: 288 cell
- Germination conditions: 72F/L, lightly vermiculite cover
- Transplant: week 41

Celosia Dracula

Photoperiod, published 2017

PanAmerican Seed.

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MATERIALS AND METHODS

- Sown: week 45
- Plug daylength: Night Interruption (NI)
- Transplant: week 49
- Daylength treatments started after transplan
  - Natural daylength (from 9 h 10 minutes to 10 h)
  - 10, 11, 12, 13, 14 hours and night interruption

Celosia Dracula

Photoperiod, published 2017

PanAmerican Seed

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Celosia Dracula is a facultative intermediate-day plant. Daylengths shorter than 11 hours or longer than 14 hours will significantly delay flowering. It will flower the fastest at daylength from 13 to 14 hours.

Celosia Dracula

Photoperiod, published 2017

PanAmerican Seed

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Celosia Dracula flowers quite uniformly no matter the daylength after transplant because flowering was induced during the plug stage.

Plug daylength:
12-13 h

Plug daylength:
Night interruption

Celosia Dracula

Photoperiod, published 2017

PanAmerican Seed.

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PHOTOPERIOD RECOMMENDATIONS

Celosia Dracula is a facultative intermediate-day plant.

- Daylengths shorter than 11 hours or longer than 14 hours will significantly delay flowering.
- It will flower the fastest at daylength from 13 to 14 hours.

Celosia Dracula flower can be induced during the plug stage.

- Limited Inductive Photoperiod of 13 to 14 hours daylength for 3 to 4 weeks during plug stage will cause faster flowering when produced in un-favorable daylengths.

Celosia Dracula

PGR, published 2017

PanAmerican Seed.

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PGR TRIAL

PGR Plug PGR treatments:

- Bonzi 5ppm spray at a week after sowing
- A-Rest 5ppm spray at a week after sowing
- Control

Finish PGR treatments:

- 2x B9 5000ppm spray at 2 and 3 weeks after transplant
- Bonzi 10ppm spray at 2 and 3 weeks after transplant
- Bonzi 5ppm spray at 2 and 3 weeks after transplant
- Control

Celosia Dracula

PGR, published 2017

PanAmerican Seed.

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Bonzi 5ppm spray at stage 1 (at radicle emergence) controlled hypocotyl and internode stretch well.

Bonzi 5ppm | A-Rest 5ppm | Control

Celosia Dracula

PGR, published 2017

PanAmerican Seed.

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Plug PGR effect carried over to finish stage and delayed flower timing by about 2 weeks.

Plug:
Bonzi 5ppm spray
Finish: No PGR

Plug:
control
Finish: No PGR

Celosia Dracula

PGR, published 2017

PanAmerican Seed.

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B9 5000ppm 2x gave the best size control.

B9 5000ppm 2x | Bonzi 10ppm sp 2x | Bonzi 5ppm sp 2x | Control

Celosia Dracula

PGR, published 2017

PanAmerican Seed.

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PGR RECOMMENDATIONS

- Bonzi 5 ppm spray at stage 1 controlled hypocotyl and internode stretch very well
  - This treatment can delay flowering by about 2 weeks in the finish stage.
- B9 5000 ppm spray twice gave the best size control during finish stage.