



Celosia Dracula

GrowerFacts Extra (Photoperiod & PGR)

Additional Culture Research

from

PanAmerican Seed[®]

Celosia Dracula

Photoperiod and PGR, published 2017

PanAmericanSeed.

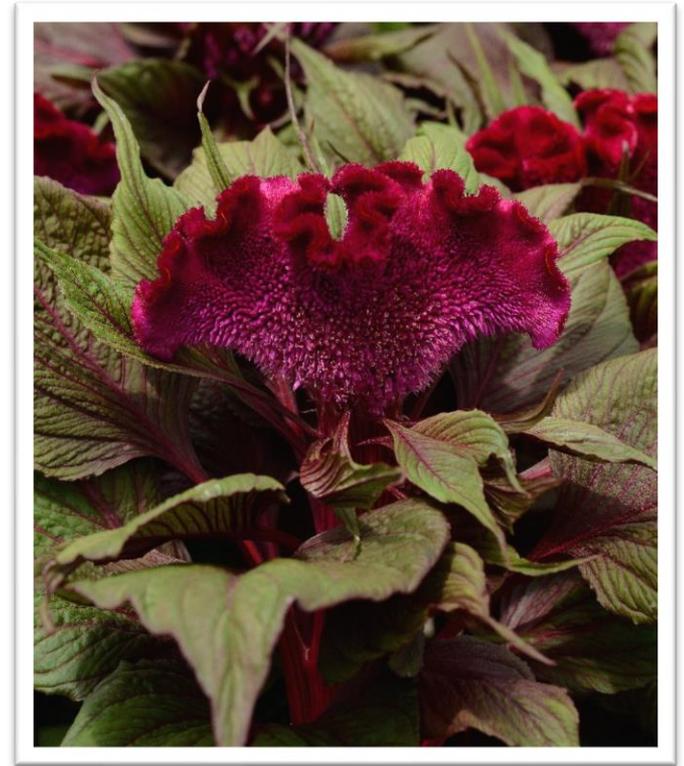
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INTRODUCTION

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

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MATERIALS AND METHODS

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



Celosia Dracula

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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.



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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

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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

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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



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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

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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

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B9 5000ppm 2x gave the best size control.



B9 5000ppm 2x

Bonzi 10ppm sp 2x

Bonzi 5ppm sp 2x

Control

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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.

