GrowerFacts Extra
Celosia Foliage Sol™ Collection

Additional Culture Research

from

PanAmerican Seed®

Celosia Foliage Sol™ Collection

Photoperiod Response, published 2020

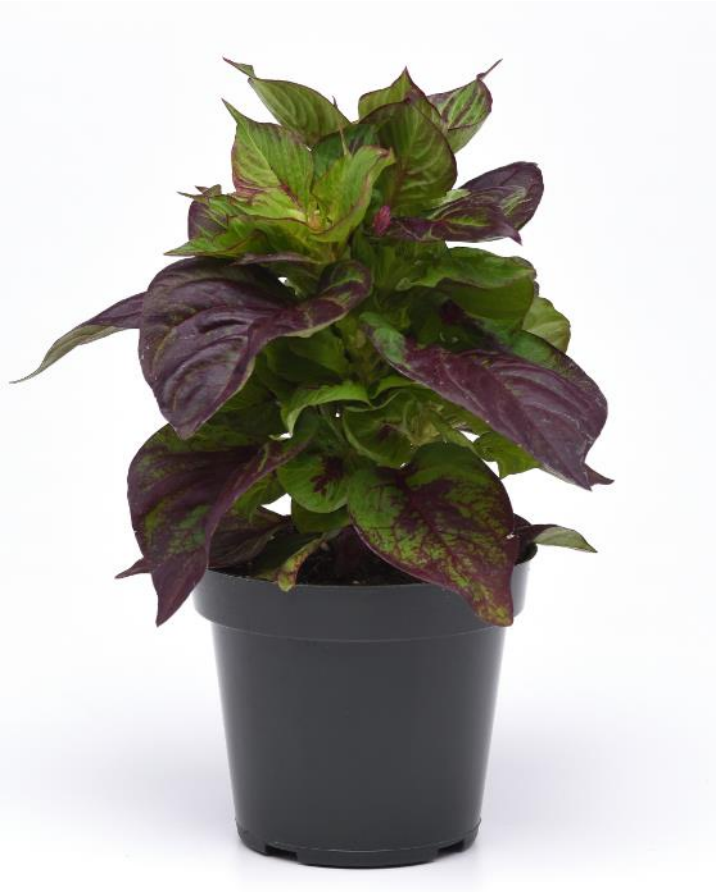
PanAmerican Seed

OBJECTIVE

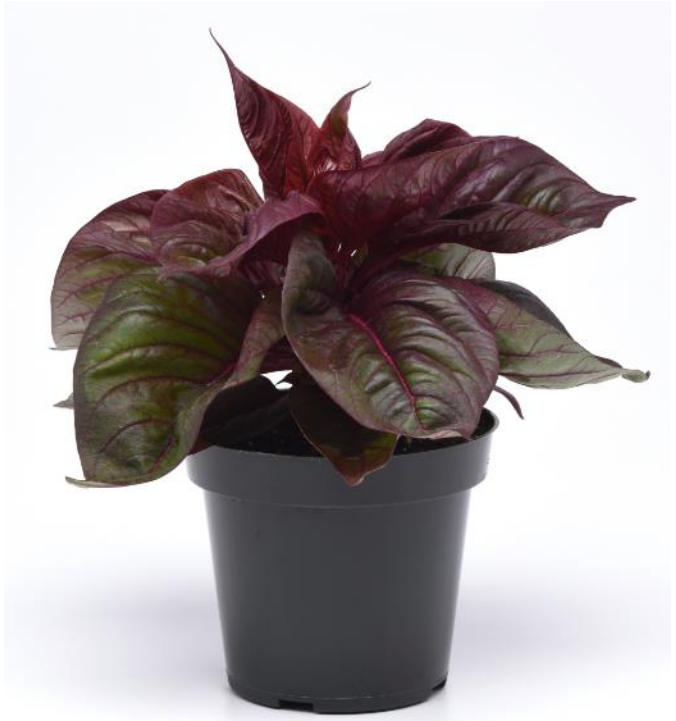
How light levels effects growth and color of Sol Gekko Green and Sol Lizzard Leaf.

RECOMMENDATION

- Facultative short day plants
- Under the same photoperiod conditions, Lizzard Leaf flowered much later than Gekko Green
- Foliage color is strongly related to light intensity. The higher light the plants are exposed to, the more intense their color
- Foliage color can be changed significantly by exposure to high light for 1 to 2 weeks at the end of production



Gekko Green



Lizzard Leaf

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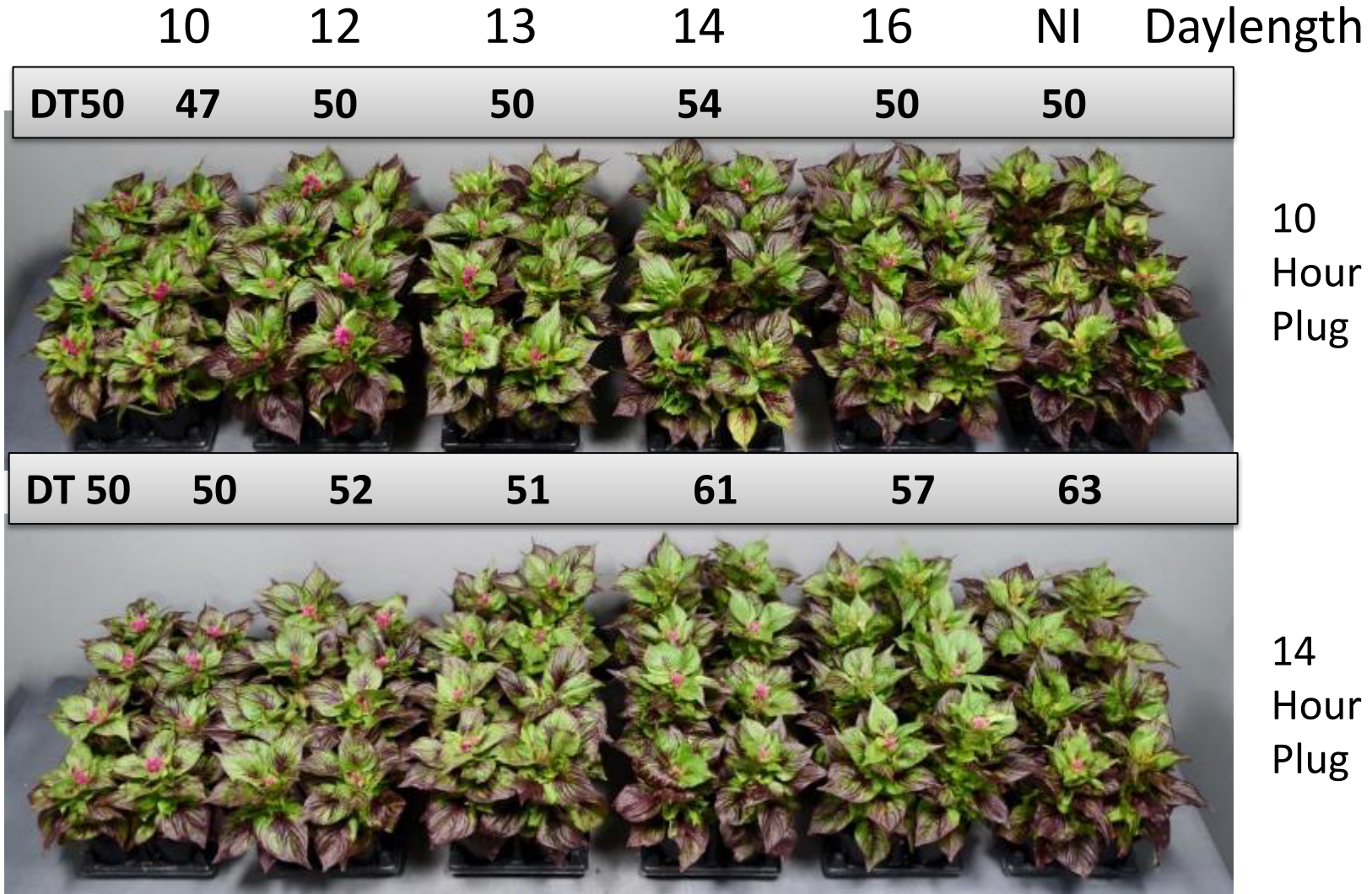
ANNUALS

Sol Gekko Green

- Facultative SD plant
- Flowering can be induced during plug stage



*DT50 means days to 50% flower from sowing.

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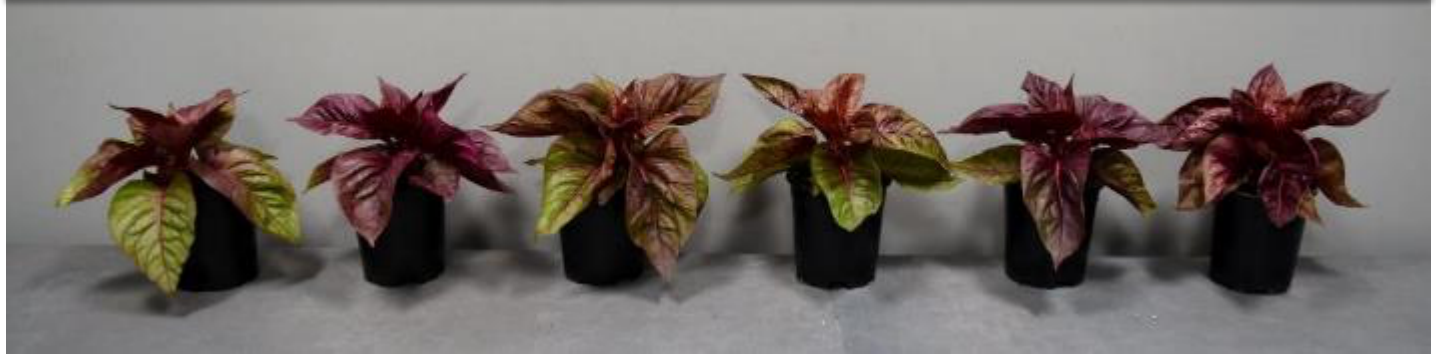
ANNUALS

Sol Lizzard Leaf

- Facultative short day plant
- Short day plug does not affect flower timing.

	10	12	13	14	16	NI	Daylength
DT50	83	80	93	96	96	105	



10 Hour Plug

	10	12	13	14	16	NI	Daylength
DT50	83	83	96	96	104	105	

14 Hour Plug

*DT50 means days to 50% flower from sowing.

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Light Levels

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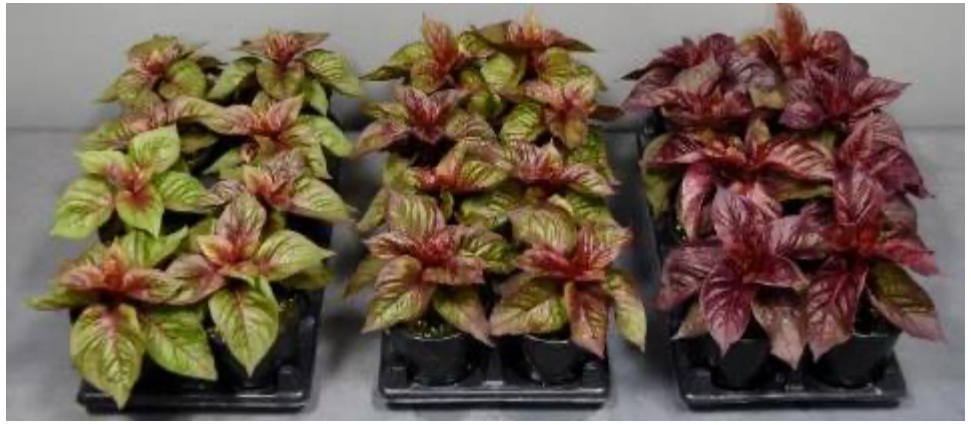
DLI ($mol \cdot m^{-2} \cdot d^{-1}$)

7 12 15

<u>EFFECTS OF LIGHT LEVELS ON FOLIAGE COLOR</u>

- Foliage color was significantly affected by light intensity
- Higher light levels created more intensive color

Gekko Green



Lizzard Leaf

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End of Production Light Exposure

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Lizzard Leaf

Shade

1 week high light

Shade

2 weeks high light

Gekko Green

Shade

1 week high light

Shade

2 weeks high light

<u>END OF PRODUCTION SUPPLEMENTAL LIGHTING</u>

- Foliage color can be changed significantly by exposure to high light for 1 to 2 weeks