



# GrowerFacts Extra Celosia Foliage Sol™ Collection

Additional Culture Research

from

PanAmerican Seed®

# Celosia Foliage Sol™ Collection

Photoperiod Response, published 2020

PanAmericanSeed.

## OBJECTIVE

How light levels affect 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.

	10	12	13	14	16	NI	Daylength
<b>DT50</b>	<b>47</b>	<b>50</b>	<b>50</b>	<b>54</b>	<b>50</b>	<b>50</b>	
							10 Hour Plug
<b>DT 50</b>	<b>50</b>	<b>52</b>	<b>51</b>	<b>61</b>	<b>57</b>	<b>63</b>	
							14 Hour Plug



# Celosia Foliage Sol™ Collection

## Light Levels

PanAmericanSeed.

### ANNUALS

#### EFFECTS OF LIGHT LEVELS ON FOLIAGE COLOR

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

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

7

12

15



**Gekko  
Green**



**Lizzard  
Leaf**

# Celosia Foliage Sol™ Collection

End of Production Light Exposure

PanAmericanSeed.

## ANNUALS

Lizzard  
Leaf



Shade

1 week  
high light



Shade

2 weeks  
high light

Gekko  
Green



Shade

1 week  
high light



Shade

2 weeks  
high light

### END OF PRODUCTION SUPPLEMENTAL LIGHTING

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