

**Coleus Premium Sun
Foliage Coloration Trial**

2016, Elburn

PanAmerican Seed[®]

Coleus Premium Sun Foliage Coloration Trial

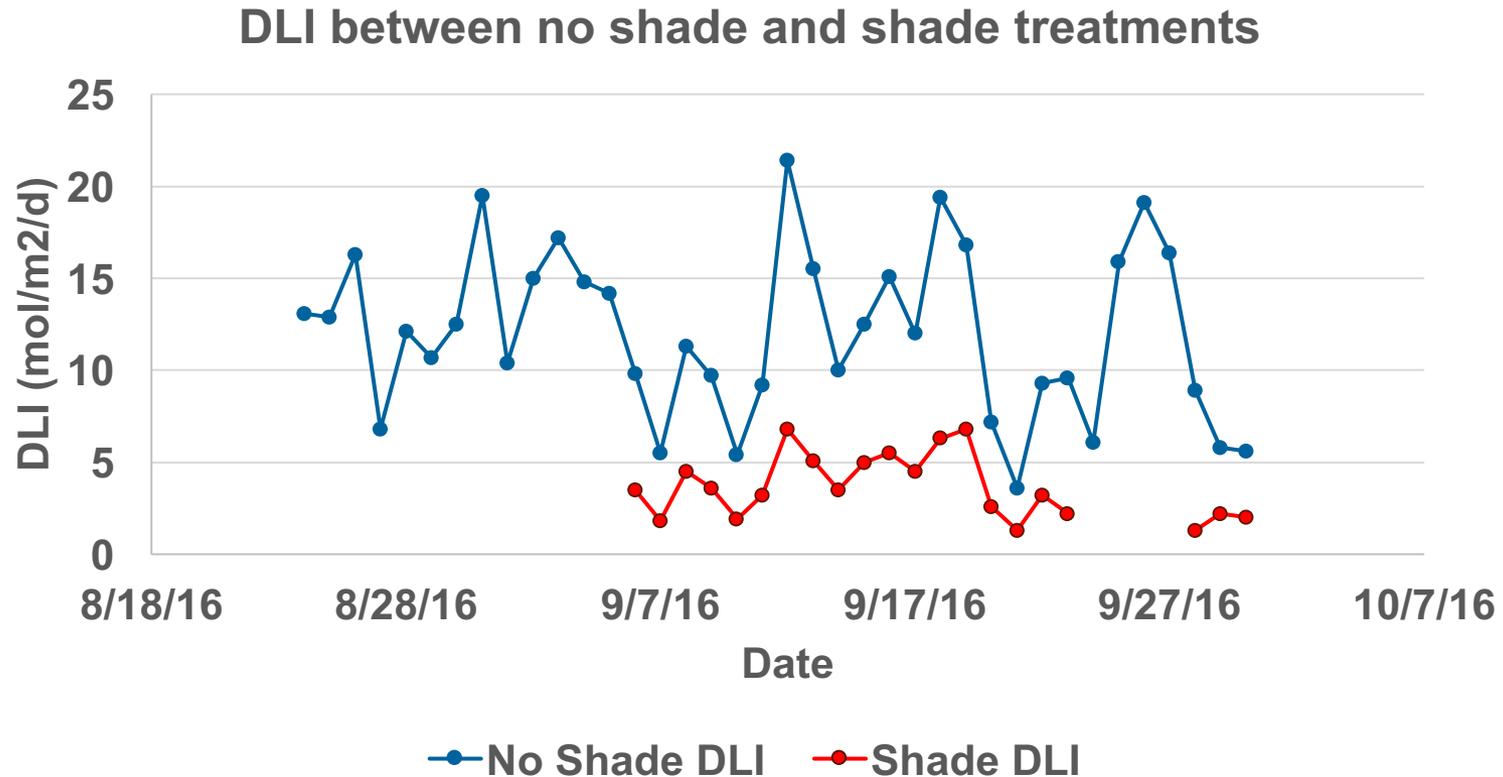
- **Objective:** to find out if PGR or light conditions can affect Coleus foliage color.
- **Varieties:** Lime Delight, Chocolate Covered Cherry, Crimson Gold, Mighty Mosaic, Pineapple Surprise, Watermelon
- **Sow date:** 7/28/16
- **Plug tray size:** 288 cells
- **Transplant date:** 8/24/16
- **Finish container size:** Quart pot

Treatments

- **Treatments:**
 - Light level inside greenhouse:
 - 65% shade by Reemay sheet
 - No shade
 - PGR:
 - B-Nine: 2x 2500ppm sp
 - Bonzi: 2x 5ppm sp
 - Florel: 2x 300ppm sp
 - Control



Environmental conditions during plug stage



Average No Shade DLI=11.5 mol·m⁻²·d⁻¹

Average Shade DLI= 4.1 mol·m⁻²·d⁻¹

ADT=72.6F

Pineapple Surprise

2x Florel 300 2x B9 2500 2x Bonzi 5ppm Control



65% shade



No shade

Lime Delight

2x Florel 300 2x B9 2500 2x Bonzi 5ppm Control



65% shade



No shade

Crimson Gold

2x Florel 300 2x B9 2500 2x Bonzi 5ppm Control



65% shade



No shade

Mighty Mosaic

2x Florel 300 2x B9 2500 2x Bonzi 5ppm Control



65% shade



No shade

Watermelon

2x Florel 300 2x B9 2500 2x Bonzi 5ppm Control



65% shade



No shade

Chocolate Covered Cherries

2x Florel 300 2x B9 2500 2x Bonzi 5ppm Control



65% shade



No shade

Summary

- Light levels impacted Coleus foliage color to a higher degree than PGRs.
- Generally, when grown under shady conditions ($\text{DLI} < 5 \text{ mol}\cdot\text{m}^{-2}\cdot\text{d}^{-1}$), Coleus plants were greener: deeper green color, larger green margin or area.
- Under no shade conditions with DLI at about $10 \text{ mol}\cdot\text{m}^{-2}\cdot\text{d}^{-1}$, plants showed more intensive, brighter, and vivid color.
- PGR use did not show significant effect on foliage color in all tested varieties.