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 = 72.6°F
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 (DLI < 5 mol·m⁻²·d⁻¹), Coleus plants were greener: deeper green color, larger green margin or area.
• Under no shade conditions with DLI at about 10 mol·m⁻²·d⁻¹, plants showed more intensive, brighter, and vivid color.
• PGR use did not show significant effect on foliage color in all tested varieties.