Evaluation of Blended Soilless Media/Poultry Litter Compost for Tobacco Transplant Production

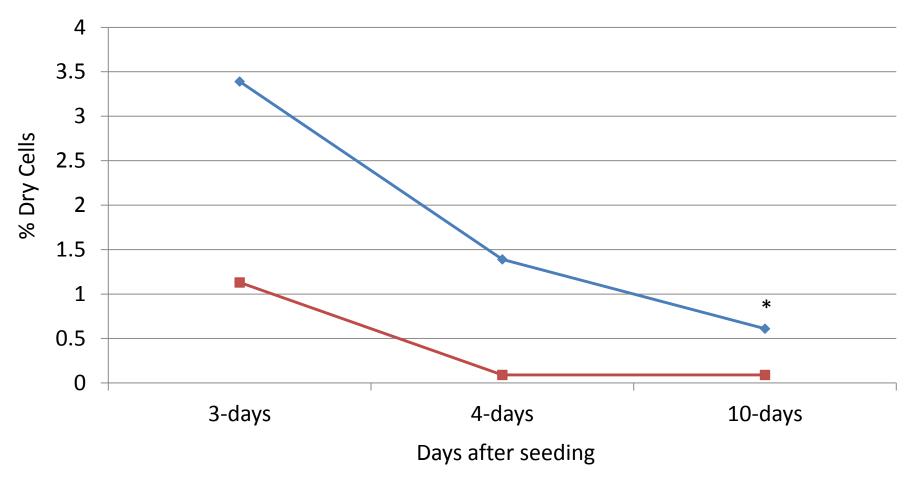
> Clint Hardy and Andy Bailey Daviess Co. KY 2015

Blended Poultry Litter/Soilless Media UKREC, Princeton KY - 2015

- Blend contained 5 gal composted chicken litter to 1 bag Carolina Choice media (approx. 50/50).
- 288-cell trays sown with KT D14 at UKREC, March 20:
 - 4 replications (trays) per treatment, randomized on float bed
 - Composted poultry litter/media blend
 - 100% media
 - 100% composted poultry litter
- Data collected:
 - Wicking (dry cells)
 - 24-day germination and spiral rooting
 - Dry weight of water roots, tray roots, and shoots from 10 randomly selected plants from center of each tray

Wicking (% Dry Cells) Poultry Litter Compost Trial – UKREC, 2015

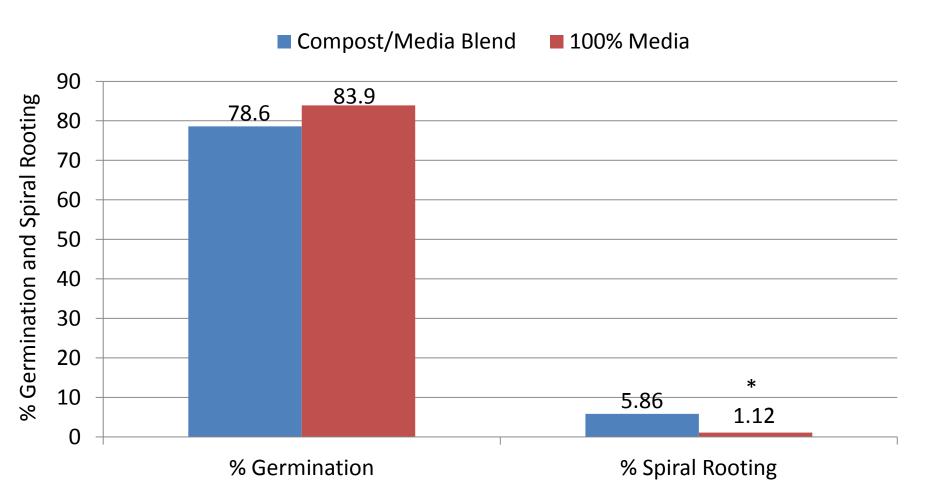
---Compost/Media Blend ----100% Media



-All trays received light mist after 3-day and 4-day evaluations -100% compost never wicked (100% dry cells)

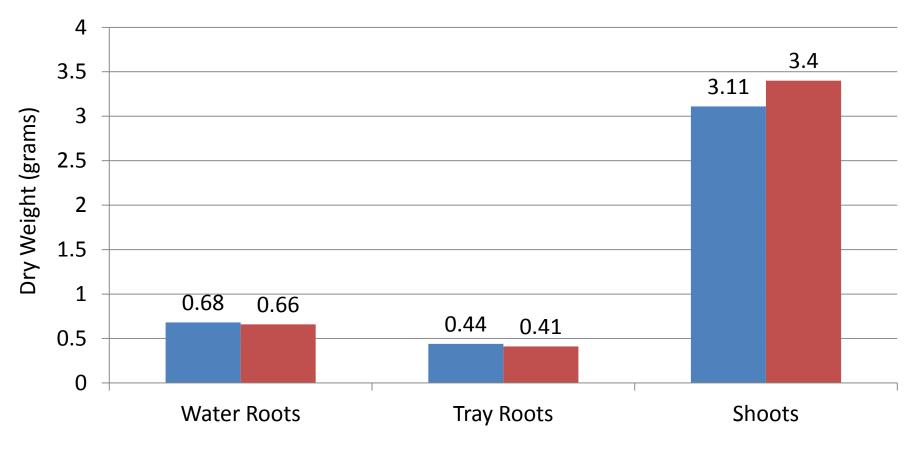
* = Statistically significant difference.

24-day Germination and Spiral Rooting Poultry Litter Compost Trial – UKREC, 2015



Dry Weights of Water Roots, Tray Roots, and Shoots Poultry Litter Compost Trial – UKREC, 2015

Compost/Media Blend 100% Media



No statistical differences in dry weights of roots or shoots.



100% Media

Composted Poultry Litter/Media Blend

Composted Litter/Media Blend

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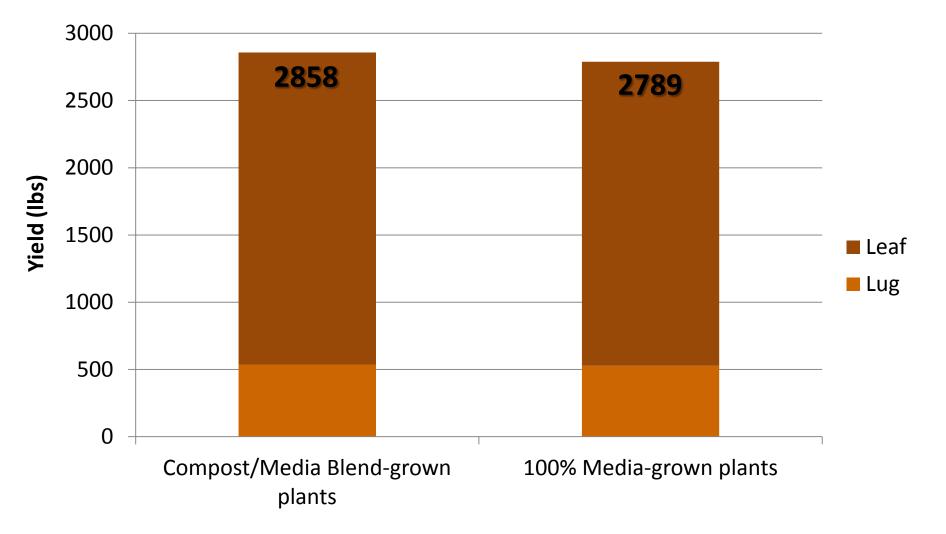
100% Media

Poultry Litter Compost Field Trial Bernie Krampe Farm, Daviess Co. KY -2015

Trays transplanted to field on June 6

40" rows * 28" plant spacing (5601 plants/acre)
2-row plots, 40 ft. long, 3 replications
Standard field practices used
Harvested September, Stripped November 12

Poultry Litter Compost Field Trial Bernie Krampe Farm, Daviess Co. KY -2015



No statistical differences between yield of compost blend- or media-grown plants.

Summary of Poultry Litter Compost

 Slightly reduced wicking with compost blend resulted in a few more dry cells and increased spiral rooting compared to 100% media

• Yield of plants grown from compost blend or 100% media were similar in the field.