



## Innovator Spotlight: BATTLEFIELD FARMS

Rapidan, Virginia

### Inside Battlefield Farms: Research with Fluence LED Grow Lights to Streamline Propagation

Located in central Virginia, Battlefield Farms Inc. operates 45 acres of commercial greenhouse production and 20 acres of outdoor cultivation to supply annuals, perennials and poinsettias to the largest retail and big-box stores in the mid-Atlantic region. This is where Research and Development Director, Travis Higginbotham introduced Fluence LED grow lights to Battlefield Farms by moving their early stage plants from the greenhouse into a controlled indoor vertical farm. Travis and his team ran trials to determine the impact of Fluence RAZRx on their efficiency and overall operation.

We are constantly evaluating new ways to be more efficient with our growing practices to enhance crop quality, timing and overall production. With Fluence LED systems, we are able to improve overall efficiency and productivity in our greenhouse operations.

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TRAVIS HIGGINBOTHAM  
RESEARCH AND DEVELOPMENT DIRECTOR

To learn more about Battlefield Farms' Fluence-powered commercial greenhouse production, visit [fluence.science/battlefield-farms/](https://fluence.science/battlefield-farms/)



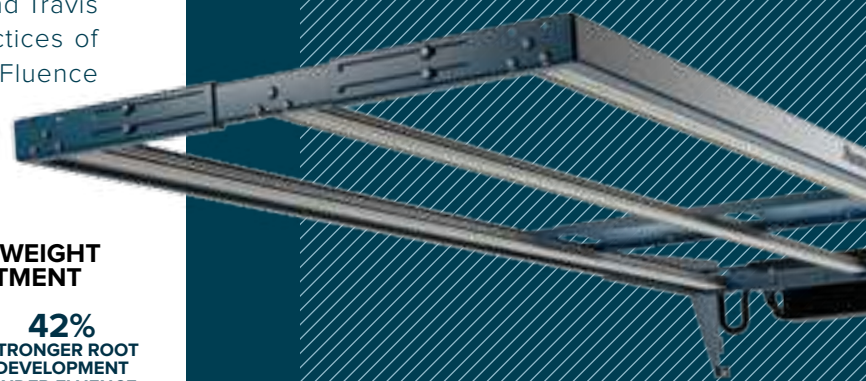


# LED Vertical Farming Transforms Pansy Production

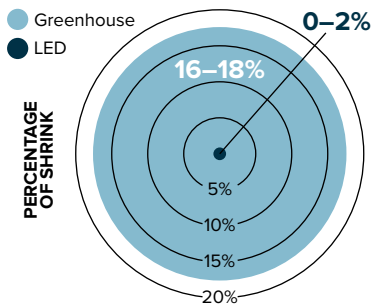


The high temperatures in the greenhouse result in a 16-18% shrink of pansy plugs with inconsistent plant quality and poor root development. This causes a dramatic decrease in transplant success and an increase in labor demand to manage inconsistent plugs. Due to these high losses, Marco and Travis decided to run trials to evaluate new cultivation practices of plugs and liners in a controlled environment under Fluence RAZRx LED grow lights.

Battlefield Farms saw:



## MEAN AMOUNT OF SHRINK VS. ENVIRONMENT



## MEAN ROOT FRESH WEIGHT IN GRAMS VS. TREATMENT

