# Plant Density and Row Spacing Affect Grain Sorghum Phenology. (C03-conley161632-Poster)

Authors:

• S.P.Conley\* - University of Missouri

### Abstract:

Stand establishment concerns and replant inquiries are common in grain sorghum (Sorghum bicolor (L.) Moench) production systems. Several studies have quantified the effect of plant population and row spacing on grain sorghum yield; however, few experiments have characterized how these factors affect grain sorghum growth and development. Therefore, the objective of this experiment was to quantify the affect of row spacing and plant population on grain sorghum phenology and yield. The experimental design was a randomized complete block design with three row spacings (19, 38, and 76 cm) and five plant populations (75,000, 148,000, 222,200, 296,300, and 370,000 plants ha-1). Preliminary data indicated that per plant leaf area, leaf number, plant canopy volume, biomass, and tiller number decreased with increased plant populations; whereas per plant height and plot leaf area index increased with increased plant population.

#### **Corresponding Author Information:**

Shawn Conley University of Missouri 210 Waters Hall Columbia, MO 65211

phone: 573-882-2001 e-mail: conleysp@missouri.edu

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