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Abstract

Live Poster Session

Major: Agriculture

Faculty Mentor: Mark Bernards

Relative Competitiveness of Giant and Yellow Foxtail as Affected by Seeding Depth and Growth in Mixtures

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Giant foxtail and yellow foxtail, have been problematic weeds in fields for countless years in the midwest. These are both grasses that grow relatively quickly and have a very good success rate. At times it is tough to control both these grasses. However, by understanding the biology of these weeds, it is possible to aid in the control of these grasses. Seeding depth is important to understand because it can tell how the plant emerges from the soil, how seed size affects emergence and how soon of emergence, and how seed size compares to each other. Intraspecific plant competition affects seed production and it will affect the population of the plant as well. In this study, the competition between Giant and yellow foxtail will tell which of these species is more dominant in the two trials that will be run. One that is dealing with seed depth and how different depths affect seed germination and the second one is about how different ratios of plants affect each other.