

## **Field Evaluation for Organic Peanuts in North Texas**

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A large portion of the U.S. organic peanut production comes from West Texas. In order to meet the increasing demand in organic peanut, exploring various areas for organic peanut cultivation will be of interest. In this view, we aim to evaluate the agronomics of some peanut breeding lines on an organic plot in North Texas. Twenty peanut breeding lines and released cultivars, obtained from the peanut breeding program and genetics from Texas A&M AgriLife in Stephenville, will be planted on organic plot at Texas A&M AgriLife at Vernon in the summer of 2021. The entries will be planted on a two-row plot of fifteen-foot long with a three-foot alley between plots. For each row, about seventy-five peanut seeds will be sown. The experiment design will be a randomized complete design with four blocks. Stand count will be evaluated at 7, 14, 21, and 28 days after sowing. Canopy coverage, time to lap, and days to maturity as well as yield and grade data will be collected. Diseases such as leaf spot, sclerotinia, and pod rot will be evaluated on a scale ranging from 0 to 10 (0: no disease and 10: plant death or 100% infection). We expect to identify statistically significant differences in the evaluated traits among the peanut breeding lines. The results from this study will help develop organic peanuts adapted to North Texas.