

## **Evaluation of High-Oleic Peanut Germination on Thermogradient Table**

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As varieties are being developed with a higher tolerance to TSWV, growers are able to plant peanut earlier in the year, such as mid-April. Proper seed germination and stand establishment is critical to allow growers a maximum yield. A study was performed in 2019 evaluating the 4 market-type peanut seed germination rate from multiple states on a thermogradient table across multiple temperatures. Varieties included Bailey with high and low oleic content, high oleic Tif 62-15, low oleic Tifguard, low oleic Valencia A, high oleic Valencia #5, a low oleic Spanish variety, and high oleic Olé. Each variety was grown in Oklahoma, New Mexico, Georgia, and North Carolina. Temperatures per individual cell on a thermogradient table ranged from 11C to 32C. Germination counts were collected from 72 hours to 168 hours after study initialization with seeds considered germinated if radicle length was >5mm. Germination counts will be modeled using SigmaPlot 14 in order to determine optimal germination temperature for each peanut variety.