Evaluation of Twin Row Spacings and Seeding Rates for Runner Peanuts.

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Research was conducted at the Wiregrass Research and Extension Center in Headland, Al from 2017-2019. The trial design was a complete randomized block design. We evaluated Ga 16 HO in three different twin row patterns plus a single row pattern with three different seeding rates and evaluated Tuf 511 in comparison with the standard row spacing and seeding rate in 2018 and 2019. Row spacing treatments were three different twin row spacings of 8", 10", and 12" with three different seeding rates of 6, 8, and 10 sd/ft. We wanted to test our standard seeding rate of 3 sd/ft for each twin row to total 6 sd/ft with both rows per linear foot the same as 6 sd/ft in single row to see if it is still sufficient or economical for producers today. For the twin row there was no difference between yields for 8", 10", and 12" spacing. However, seed rate did differ with 6 sd/ft yielding less than either 8 or 10 sd/ft. The Ga 16HO twin vs. single statistically out yielded the Tuf 511 for both years 2018 and 2019. Comparison of varieties separately indicated Tuf 511 had a statistically higher yield in twins over single for both years but the Ga 16HO showed only a significantly higher yield in twins over single in 2019. In summary, three out of four times twin out yielded single rows. In 2019, regardless of variety, twin out yielded single and in 2018 twin row Tuf 511 out yielded single of the same variety. Our research indicates a benefit to planting twin rows over single as well as an increase in yield with increased seeding rate. A cost analysis comparison was performed to determine if an economic benefit was achieved with increased seeding rate.