AG RESEARCH

PARTNERS IN PROGRESS

2020 PEANUT RESEARCH

Supported by the Oklahoma Peanut Commission and the National Peanut Board

The 2020 Partners in Progress Peanut Research Report is based on data collected from peanut variety trials in the southwest, west central and far west regions of Oklahoma to test and compare the performance of commonly grown cultivars and potential cultivar releases. Annual field trial results serve as a guide for cultivar selection when evaluating the environmental and biological stressors that affect crop production in each region.

2020 PEANUT RESEARCH SUMMARY

- **Peanut Variety Trials in Caddo, Custer and Love Counties**
  Performance of runner varieties depended on location, but averages indicate that the Lariat cultivar was the top performing entry in value per acre. Significant differences among Spanish entries, based on location and year, indicated OLé had the top yield, but the small-seeded, runner-type cultivars, AT98-99 and Span17, performed the best in value per acre. No significant differences were noted in Virginia entry yields across locations and years (2019–2020), but numerically, Contender and the breeding line NCEX17 led the entries in value per acre.
- **Disease Evaluations and Agronomic Traits of Advanced Peanut Breeding Lines**
  The top two runner entries for revenue were Lariat ($992 per acre) and ARSOK-R92-13 ($925 per acre). ARSOK breeding line R96-8 had the least Sclerotinia blight at 7%. For the Spanish/Valencia entries, ARSOK-S96-5 ($629 per acre), Span-17 ($624 per acre) and ARSOK-S88-2 ($615 per acre) generated the highest numerical crop values. In the Virginia trial, the three highest numerical crop values were from Contender, NC17EX and Jupiter ($895, $830 and $830 per acre, respectively).
- **2020 Peanut Weed Science Report**
  All herbicide treatments increased yields over no herbicide. The only treatment that generated yields below 4,000 pounds per acre was Prowl® H_2O PRE + Pursuit® applied as split application, indicating the need for a comprehensive weed control program.
- **2020 Peanut Disease Management Report**
  Peanut yields were increased with all fungicide programs, thus demonstrating the need for a well-timed fungicide program. All fungicide programs reduced leaf spot.

For the full report, visit agresearch.okstate.edu/research/peanut-report

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