

New Fungicide Tank-mix Options and Spray Timings for Reducing Losses to Late Leaf Spot and Sclerotinia Blight in Virginia Peanuts

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Field trials were conducted at two locations in 2020 and 2021 to evaluate fungicides, fungicide tank-mixes and spray timings for managing late leaf spot (*Nothopassalora personata*) and Sclerotinia blight (*Sclerotinia minor*) of Virginia-type peanut.

Late leaf spot was significantly reduced by all fungicide programs at both locations in 2020. Sclerotinia blight was severe in both trials (location 1 and 2) with significant control of Sclerotinia blight observed in all treatments containing Miravis, Miravis/Elatus tank-mixed, and Miravis and Omega in a spray program compared to the non-treated check at location 1. Location 2 demonstrated a similar trend but with no statistical differences among treatments for Sclerotinia blight. At location 1, significant yield improvement compared to non-treated plots was only observed with Miravis/Elatus and Miravis/Omega 500 treatments. A similar trend, but not statistically significant, in yield improvement was also observed at location 2 with Miravis, Miravis/Elatus and Miravis/Omega fungicide programs.

Trials in 2021 focused on fungicide timing of the Miravis/Elatus tank mix with and without Omega 500 in the same field locations as 2020. Late leaf spot was significantly reduced by all fungicide programs except Omega 500 alone at both locations in 2021. At both locations, Sclerotinia blight AUDPC (area under disease progress curve) was significantly reduced and yield improved by all fungicide programs with a significant advantage observed in programs where the Miravis/Elatus tank mix was applied prior to 90 DAP (days after planting).

These data demonstrate that control of late leaf spot and Sclerotinia blight can be achieved simultaneously with tank-mix applications of Miravis/Elatus. The cost-benefit of fungicides and spray programs will be discussed.