

## Effects of Elemental Sulfur Mixed with Fungicides for Management of Late Leaf Spot

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A recent study showed that adding micronized elemental sulfur to demethylation inhibitor (DMI) fungicides improved control of late leaf spot, caused by *Nothopassalora personata*, in fields where the efficacy of DMI fungicides alone was not adequate. An experiment was conducted to see if a similar effect would occur for a QoI fungicide with poor efficacy against *N. personata*, and with DMI and QoI fungicides with adequate efficacies. Treatments included a nontreated control, an elemental sulfur control, and plots treated with tebuconazole, mefentrifluconazole, azoxystrobin, or pyraclostrobin, either alone or mixed with sulfur. Applications began 30 days after planting and were repeated every two-weeks. Leaf spot disease was assessed using the Florida 1-10 scale, and as percent necrosis and leaflet defoliation for 5 tagged leaves per plot. Yield was also estimated. Sulfur mixtures had lower disease severity ratings for each fungicide evaluated. In general, the effect increased as fungicidal activities against *N. personata* decreased. With the exception of the untreated control, yield was not significantly improved when sulfur was added to the fungicide treatments.