

**Two Spotted Spider Mite Management in Soybeans, 2007:** Southern States Variety 'RT 3851N 'was planted on April 20 in a commercial field located near Georgetown, DE. Plots twenty five foot long and nine foot wide on 15-inch centers were replicated four times in a randomized block design. All treatments were broadcast applied on July 27 with a CO<sub>2</sub> pressurized back pack sprayer delivering 19 gallons per acre at 37 psi. Mite populations were evaluated before treatment on July 26 and 4 and 11 days after treatment by collecting 20 leaflets per plot and using a mite brushing machine to count the number of mites per leaflet. Data were analyzed using Proc GLM and means were separated using Tukey's mean separation test (P=0.05).

Spider mite pressure was extremely heavy in this field throughout the season. At the time of treatment, populations were starting to decline. On both evaluation dates, both treatments provided significantly better spider mite control compared to the untreated check. No phytotoxicity was observed.

Treatment	Rate/A	Number of Mites per leaflets		
		July 26 Pre-Trt	July 30 4 DAT	Aug 6 11 DAT
Oberon 2SC	8.5 oz	103.57a	31.75b	1.39b
Agri-Mek 0.15EC	16 oz	133.24a	28.25b	1.35b
Untreated	---	117.19a	68.05a	4.84a

Means within a column followed by the same letter are not significantly different ( Tukey's; P=0.05).