

**Two Spotted Spider Mite Management in Soybeans - 2009:** ' SSRT4451N ' soybeans were planted on June 3 at the University of Delaware Research and Education Center located near Georgetown, DE. Plots consisted of four 25 ft-long rows on 30-inch centers. Each treatment was replicated four times and arranged in a RCB design. Foliar treatments were applied as a broadcast spray on July 29. All foliar treatments applied with a CO<sub>2</sub> pressurized wheel barrow sprayer delivering 26 gpa at 40 psi. Mite populations were evaluated on a weekly basis from June 26 through Aug 12 by examining 20 leaflets per plot for the presence of motile spider mites. Data were analyzed using Proc GLM and means were separated by Tukey's mean separation test (P=0.05).

Spider population pressure was low. All treatments provided significantly better spider mite control 6 days after treatment compared to the untreated check except the dimethoate and Lorsban. No phytotoxicity was observed.

Table 1. Two-Spotted Spider Mite Counts

Treatment	Rate/A	Mean Number Mites per 20 leaflets <sup>1</sup>			Yield <sup>1</sup> BU/A
		July 27 Pre-Treatment	Aug 4 6 DAT	Aug 12 14 DAT	
Dimethoate 4 EC	16 oz	96.50a	5.00ab	2.00a	34.14a
Dimethoate 4 EC + CHEM-STIK LpH	16 oz + 1 qt/100 gal	97.50a	6.75ab	0.00a	34.29a
Lorsban 4EC	16 oz	189.50a	6.75ab	0.50a	31.60a
Zeal WSP	1 oz	95.75a	0.00b	0.00a	33.12a
Zeal WSP	2 oz	88.25a	1.25b	0.00a	33.68a
Oberon 2SC	8 oz	60.50a	0.25b	0.50a	35.76a
Oberon 2SC	12 oz	109.50a	0.50b	0.00a	36.03a
Hero 1.24EC	10.3 oz	66.25a	0.75b	0.50a	35.98a
Brigade 2 E	6 oz	88.75	0.00b	0.00a	36.56a
Untreated Check	---	147.00a	19.75a	1.50a	35.28a

<sup>1</sup> Means within a column followed by the same letter are not significantly different (Tukey's mean separation test; P=0.05).