

Two-Spotted Spider Mite Management in Soybeans - 2001: Southern States 'RT-4495' were planted on May 20 at the University of Delaware, Research and Education Center located near Georgetown, DE. Four-row, 25 ft long plots on 30-inch centers were replicated 4 times in a RCB design. Materials were applied on June 26 and July 19. All foliar treatments were broadcast applied with a CO₂ pressurized backpack sprayer delivering 17.2 gpa @ 40 psi. Mite populations were evaluated on a weekly basis from June 26 through July 31 by collecting 10 leaflets per plot and using a mite brushing machine to determine the number of mites per leaflet. Yield data was taken from the entire plot on October 18. . Data were analyzed using ANOVA and means were separated by Ryan's q-test (P=0.05).

Spider mite pressure was moderately high. All treatments provided significantly better spider mite control compared to the untreated check. Capture and MESA provided significantly better yields compared to the untreated check.

Treatment	Rate/A	Mean Number Mites per Leaf						Yield BU/A
		June 26 Pre	July 3 6 DAT	July 10 13DAT	July 17 20DAT	July 24 5 DAT	July 31 12DAT	
Acramite 50WP	0.75 lb	18.90a	4.20b	6.00b	19.20bc	9.30b	0.15b	41.66ab
Acramite 50WP	0.50 lb	18.90a	8.70b	9.45b	27.90bc	6.60b	1.80b	39.07ab
Capture 2EC	5.12 oz	18.00a	4.10b	9.00b	25.80bc	0.45b	0.75b	45.52a
Danitol 2.4EC	10.7 oz	18.30a	6.30b	12.83b	57.10bc	10.35b	1.80b	41.67ab
MESA	24 oz	20.25a	0.75b	3.45b	9.45c	1.65b	0.15b	44.50a
Savey 50WP	4 oz	19.80a	6.15b	4.80b	18.00bc	8.70b	0.30b	39.55ab
Dimethoate 4 EC	16 oz	16.35a	14.85b	27.60b	45.15bc	19.05b	1.20b	39.86ab
Agri-Mek 0.15EC	8 oz	27.90a	4.05b	4.65b	8.40c	6.75b	0.60b	41.59ab
Lorsban 4EC	16 oz	13.80a	7.65b	13.95b	73.50b	14.40b	3.60b	41.98ab
Untreated	-----	20.85a	66.00a	85.20a	182.40a	73.95a	10.05a	30.71b

Means within a column followed by the same letter are not significantly different (P=0.05, Ryan's q test).