

Cucumber Beetle Management in Cucumbers - 2001: 'Marketmore' cucumbers were planted on Aug 21 at the University of Delaware Research and Education Center near Georgetown, DE. Plots consisted of four 20-ft-long rows on 2.5-ft centers. Each treatment was replicated four times and arranged in a RCB design. The evaluated materials are listed in the tables and all in-furrow materials were applied on Aug 21 and foliar treatments on Sept 11. Application were made with a CO₂ backpack boom sprayer delivering 4 gpa @ 40 psi in-furrow and 22.5 gpa @ 40 psi for foliar applications. The number of cucumber beetles and damaged plants was recorded twice a week for 10 randomly selected plants per plot from September 4 through September 26. Data were analyzed using ANOVA and means were separated by Ryan's q-test (P=0.05).

Cucumber beetle pressure was low. On September 14, cucumber beetle counts and the percentage of damaged plants was significantly lower for all treatments compared to the untreated check.

I. Cucumber Beetle Data

Treatment	Rate/A	Mean Number Cucumber Beetle per 10 plants *					
		Sept 4	Sept 10	Sept 14	Sept 18	Sept 21	Sept 26
Platinum 2SC	7 oz in-furrow	0.00a	1.00a	0.75b	1.00ab	4.00b	5.50a
Platinum 2SC	9 oz in-furrow	1.25a	1.25a	0.50b	1.25ab	3.75b	4.25a
Admire 2F	16 oz in-furrow	0.00a	1.50a	1.75b	2.00ab	3.50b	3.75a
Actara 25WG	1.5 oz foliar	0.50a	2.75a	0.50b	0.00b	3.25b	2.25a
Actara 25WG	3 oz foliar	1.00a	2.50a	0.75b	1.25ab	3.50b	2.50a
Untreated	-----	0.75a	2.75a	4.50a	3.50a	6.50a	3.00a

* Combination of Spotted and Striped Cucumber Beetles

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

II. Cucumber Beetle Damage and Bacterial Wilt Infestation

Treatment	Rate/A	Mean % Cucumber Beetle Damaged Plants		
		Sept 4	Sept 10	Sept 14
Platinum 2SC	7 oz in-furrow	52.50ab	35.00a	2.5b
Platinum 2SC	9 oz in-furrow	50.00ab	40.00a	2.5b
Admire 2F	16 oz in-furrow	32.50b	37.50a	12.5b
Actara 25WG	1.5 oz foliar	62.50ab	62.50a	5.00b
Actara 25WG	3 oz foliar	60.00ab	57.50a	5.00b
Untreated	-----	70.00a	70.00a	40.00a

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