

**Watermelon Aphid Management Insecticide Trial, 2011** – ‘Sangria’ watermelons were transplanted on May 26 at the University of Delaware’s Research and Education Center located near Georgetown, DE. Plots consisted of two 20 ft long rows planted on 7ft centers. Each treatment was replicated four times and arranged in a RCB design. Foliar treatments were applied with a CO<sub>2</sub> pressurized back pack sprayer on June 7 using a single nozzle broadcast application delivering 38 gpa at 40 psi. Aphid populations were evaluated by counting the number of aphids per 25 leaves and the number of infested plants pre-treatment and 6 days after treatment. Beneficial activity was very high at time treatments were applied resulting in total population crash post treatment. Data were analyzed using Proc GLM and means were separated by Tukey’s mean separation test (P=0.05).

Treatment	Rate/Acre	Percent Aphid Infested Plants <sup>1</sup>		Number Melon Aphids per leaf <sup>1</sup>	
		June 6 Prt – Trt	June 13 6 DAT	June 6 Prt – Trt	June 13 6 DAT
Assail 30 SG	4 oz	25a	0	0.93a	0
Belay 2.13 SC	4oz	55a	0	0.41a	0
Movento 240 SC + NI	5 oz + 0.25% NIS V/V	30a	0	0.14a	0
Beleaf 50 SG	2.8 oz	25a	0	0.11a	0
Lannate LV	3 pt	45a	0	0.64a	0
Actara	3 oz	35a	0	0.53a	0
Vydate L	2 pt	25a	0	0.17a	0
Endigo ZC	4.5 oz	40a	0	0.27a	0
Fulfill	2.75 oz	30a	0	0.14a	0
Untreated Check	--	30a	0	0.37a	0

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