



Soybean Aphid Insecticide Efficacy Trial -
Republic Co., KS 2005

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Pest: Soybean Aphid, *Aphis glycines*

Crop: Soybean, 13 treatments

Location: Republic Co., Kansas

Planting Date: May 09, 2005

Plot Size: 4 rows x 20 ft

Experimental Design: Randomized Complete Block; 4 Replications

Information: Sprayed with hand sprayer delivering 20 gal/acre at 30 psi on 08/13/05

Phytotoxicity: none noted

Evaluation: Ten stems selected at random from each plot and aphids counted on 08/18/05 (beginning seed to full pod stage), 08/22/05 (pod filling stage), 08/30/05 (Full pod stage), 09/02/05 (full pod to full seed stage) and 09/07/05 (full seed to mature stage)

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Evaluation date: August 18, August 22, August 30, September 02 and September 07

| No. | Treatment/ Product Name | Total numbers of Aphids/10 plants | | | | |
|-----|------------------------------------|-----------------------------------|--------------------|--------------------|-----------------------|-----------------------|
| | | August 18, 2005 | August 22, 2005 | August 30, 2005 | September 02, 2005 | September 07, 2005 |
| 1 | Warrior w/Zeon @ 1.92 fl. oz./acre | 40.74 ± 12.65b | 56.25 ± 13.86b | 57.25 ± 19.13b | 60.00 ± 12.02bcd | 0.25 ± 0.25d |
| 2 | Warrior w/Zeon @ 2.56 fl. oz./acre | 21.25 ± 15.33b | 57.00 ± 14.49b | 61.00 ± 12.88b | 36.00 ± 11.39cd | 5.00 ± 2.35bcd |
| 3 | Warrior w/Zeon @ 3.20 fl. oz./acre | 15.00 ± 15.00b | 44.50 ± 16.10b | 64.75 ± 7.26b | 28.50 ± 11.84d | 3.75 ± 1.65bcd |
| 4 | Warrior w/Zeon @ 3.80 fl. oz./acre | 39.00 ± 20.47b | 82.00 ± 11.34b | 76.50 ± 1.94b | 54.75 ± 18.59bcd | 8.00 ± 3.76bc |
| 5 | Mustang Max @ 4.00 fl. oz./acre | 16.00 ± 5.70b | 59.25 ± 15.32b | 67.00 ± 6.96bb | 51.00 ± 9.38bcd | 5.00 ± 3.00bcd |
| 6 | Mustang Max @ 3.00 fl. oz./acre | 24.00 ± 17.21b | 68.25 ± 9.18b | 53.00 ± 15.35b | 46.00 ± 3.08bcd | 1.00 ± 0.71cd |
| 7 | Silencer @ 3.00 fl. oz./acre | 26.50 ± 10.36b | 80.75 ± 7.08b | 54.75 ± 19.99b | 68.00 ± 4.88bc | 10.50 ± 4.33b |
| 8 | Baythroid 2 @ 2.00 fl. oz./acre | 40.50 ± 18.42b | 56.00 ± 19.44b | 60.25 ± 20.54b | 49.00 ± 7.94bcd | 0.25 ± 0.25d |
| 9 | Baythroid 2 @ 2.40 fl. oz./acre | 13.25 ± 6.30b | 54.25 ± 11.09b | 59.00 ± 17.24b | 58.50 ± 4.41bcd | 0.00 ± 0.00d |
| 10 | Fanfare @ 3.00 fl. oz./acre | 31.00 ± 8.83b | 88.50 ± 3.86b | 78.00 ± 7.04b | 77.00 ± 5.29b | 5.75 ± 1.97bcd |
| 11 | Baythroid XL @ 2.40 fl. oz./acre | 36.75 ± 14.65b | 66.25 ± 9.68b | 76.50 ± 5.84b | 39.75 ± 8.73cd | 0.00 ± 0.00d |
| 12 | Baythroid XL @ 2.80 fl. oz./acre | 5.50 ± 3.77b | 57.50 ± 14.75b | 71.75 ± 8.29b | 64.25 ± 7.09bc | 0.00 ± 0.00d |
| 13 | Untreated | 725.25 ± 29.71a | 1550.75 ± 91.86a | 1360.25 ± 147.07a | 949.00 ± 28.04a | 63.00 ± 4.98a |

Means within a column followed by the same letter are not significantly different ($P > 0.05$; PROC GLM; Mean comparison by LSD [SAS Institute 2003]).

Reference to specific products is provided solely for informational purposes. Experiments with pesticides on non-labeled crops or pests is part of the insecticide registration process, it does not imply endorsement or recommendation of non-labeled uses of pesticides by Kansas State University. All pesticide use must be consistent with current labels.

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