

## EVALUATION OF FOLIAR TREATMENTS FOR ALFALFA WEEVIL ON ALFLAFA, 2002

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Efficacy of six foliar insecticide treatments to control alfalfa weevil were evaluated on the first cutting of 5<sup>th</sup> year alfalfa at the OARDC Western Branch Station near South Charleston, OH. Plots were 15 X 60 ft with four replications in a RCBD. Treatments were applied 27 April with a custom-built sprayer having a boom length of 15 ft and TeeJet 8002 nozzles spaced at 15 inch intervals. The system was calibrated to deliver 24 gal./acre at 35psi at a tractor speed of 3 mph. Abundance of AW larvae were estimated by collecting 10 stems and carefully inspecting each stem for AW. AW abundance was measured pre-treatment and at 8, 15 and 21 DAT. Stem height was estimated by collecting 10 stems per plot pre-treatment and 28 DAT.

All chemical treatments achieved significant control of AW, which significantly reduced stem growth of the untreated check. Significant differences in AW larval counts among chemical treatments were observed at 8 DAT. Disease killed most of the remaining larvae in the check at 21 DAT.

Table 1.

| Treatment    | Rate/<br>Acre | AW per 10 Stems     |                |                  |                  | Alfalfa stem ht (inches) |        |                |
|--------------|---------------|---------------------|----------------|------------------|------------------|--------------------------|--------|----------------|
|              |               | 26 April<br>Pre-Trt | 6 May<br>8 DAT | 14 May<br>15 DAT | 20 May<br>21 DAT | 26 April<br>Pre-trt      | 28 May | Stem<br>Growth |
| Baythroid 2  | 2.5 fl oz     | 33.3 a              | 0.00 a         | 0.00 a           | 0.00 a           | 8.8 a                    | 20.9 a | 11.7 a         |
| F0570 0.8 EW | 4 fl oz       | 34.0 a              | 0.00 a         | 1.00 a           | 0.00 a           | 9.1 a                    | 21.0 a | 11.8 a         |
| Mustang      | 4 fl oz       | 31.3 a              | 4.00 c         | 1.00 a           | 0.00 a           | 9.0 a                    | 20.3 a | 10.9 a         |
| Pounce 3.2EC | 6 fl oz       | 33.7 a              | 3.00 abc       | 0.50 a           | 0.00 a           | 8.8 a                    | 20.7 a | 11.5 a         |
| Warrior 1CS  | 3.2 fl oz     | 30.3 a              | 0.50 ab        | 0.00 a           | 0.00 a           | 8.8 a                    | 20.6 a | 11.8 a         |
| XR-225       | 3.2 fl oz     | 28.0 a              | 3.25 bc        | 0.25 a           | 0.00 a           | 9.5 a                    | 20.2 a | 10.9 a         |
| Untreated    |               | 27.0 a              | 33.00 d        | 8.25 b           | 0.25 a           | 8.7 a                    | 18.2 b | 9.3 b          |

Means followed by the same letter in a column are not significantly different (P = 0.05, LSD).