

**EVALUATION OF ROOTWORM PROTECTED BIOTECH CORN AND SOIL APPLIED INSECTICIDES
ON CORN FOR CONTROL OF CORN ROOTWORM LARVAE, 2002.**

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Three granular insecticide treatments and a rootworm protected biotech corn were evaluated for their efficacy against corn rootworm larvae at the OARDC Western Branch Station near South Charleston, OH. The plots were planted with a cone seeder calibrated to drop 31 seeds/row in 25 ft. The insecticides were applied at planting time on 26 April to four rows (30 inch spacing) by 25 ft long plots arranged in a RCBD with four replicates per plot. The granular insecticides (Aztec, Force and Lorsban) were applied in a T-band with a modified Noble applicator that was calibrated to deliver the desired rate. Counts of total stand in 25 row ft were taken on 5 June. Rootworm feeding injury was evaluated on 3 July by randomly digging 5 roots per replicate for each treatment. Roots were washed, examined for corn rootworm larval feeding injury and rated in accordance with the 0-3 Node-Injury Scale. Lodging counts were made on 11 July by counting the number of plants lodged in the center two rows. Plots were destroyed on 12 July before tassel.

There were no significant differences in total stand observed among treatments. All plants treated with an insecticide and the rootworm protected biotech corn had lower root rating and less lodging than the untreated check. There were no significant difference in root rating or lodging among the insecticide treatments and the rootworm protected biotech corn.

Table 1.

Treatment	Rate of Application	Application Method	Stand per 50 Row Ft	Root Rating (0-3 Node-Injury Scale)	Lodging (% Plants Lodged in Middle 2 Rows)
YieldGard Rootworm			50.00 a	0.04 a	0.00 a
Aztec 2.1G	6.7 oz / 1000 row ft	TB - NB	53.00 a	0.07 a	0.00 a
Force 3G	4 oz / 1000 row ft	TB - NB	49.75 a	0.11 a	0.00 a
Lorsban 15G	8 oz / 1000 row ft	TB - NB	52.00 a	0.50 a	7.35 a
Isoline			48.25 a	1.59 b	32.38 b

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

TB - NB = T-band with Noble