

EVALUATION OF INSECTICIDES AND YIELDGARD ROOTWORM FOR STAND AND YIELD IN FIELD CORN, 2003.

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Two trials were established at the OARDC Northwestern Branch Station near Custar, OH to evaluate seed applied insecticides and a YieldGard Rootworm hybrid for stand and yield in corn. The plot area was in wheat in 2002.

Trial 1: Four seed applied insecticides, Cruiser, Gaucho, Poncho and Prescribe, and a YieldGard Rootworm corn hybrid (AgriGold A6445) were planted no-till into a stale seedbed on 24 April in four-row plots (30 inch spacing) by 50 ft long in a RCBD with four replicates per treatment. Insecticides were applied to the corn hybrid AgriGold A6445, an isolate of the YieldGard Rootworm hybrid. Seed of the YieldGard Rootworm hybrid was treated with Gaucho at 0.16 mg a.i./kernel. A stand count was made on 2 July by counting the number of plants in 25 ft of the 2 center rows. Plots were machine harvested on 21 Oct.

Significant differences in stand were not observed among treatments. Significant differences in yield were observed among treatments. Poncho 1250 had a significantly higher yield as compared with the other treatments and the untreated check.

Table 1: Stand and Yield Observed in Corn Following Wheat.

Treatment	Rate	Plants per 50 Row Feet	Yield (bu/Acre)
Cruiser	0.25 mg ai/kernel	76.00 a	233.2 b
Gaucho	0.16 mg ai/kernel	76.50 a	233.8 b
Poncho	0.25 mg ai/kernel	76.00 a	235.9 b
Poncho	1.25 mg ai/kernel	72.75 a	248.3 a
Prescribe	1.34 mg ai/kernel	74.25 a	238.2 b
YieldGard Rootworm + Gaucho	0.16 mg ai/kernel	74.25 a	219.1 c
Untreated		74.25 a	230.7 b

Means in a column followed by the same letter are not significantly different @ P = 0.05.

Trial 2: Two seed applied insecticides, Gaucho and Poncho, were planted on 24 April in four-row plots (30 inch spacing) by 50 ft long in a RCBD with four replicates per treatment. The seed applied insecticides were commercially applied to the corn hybrid AgriGold A6395. A stand count was not taken in this trial. Plots were machine harvested on 21 Oct.

Significant differences in yield were not observed among treatments and the untreated check.

Table 2: Yield Observed in Corn Following Wheat.

Treatment	Rate	Yield (bu/Acre)
Gaucho	0.16 mg ai/kernel	206.1 a
Poncho	0.25 mg ai/kernel	212.1 a
Poncho	1.25 mg ai/kernel	215.0 a
Untreated		202.5 a

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