

Section IV  
Cereal Crop Pests

**COMPARISONS OF SEED TREATMENT WIREWORM INSECTICIDES IN SPRING  
WHEAT 2005**

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A replicated RCBD trial, sponsored by Bayer Crop Science, of 12 treatments including fungicide only and an untreated check with 4 replications of 10 x 20 feet each per treatment was seeded by Hegi Cone Seeder on May 17, 2005 in 7 inch row spacings. The Variety Alpowa was selected for lack of resistance to insects and common use locally. This trial was seeded into mustard ground following a dry cold winter with a wet late spring. The goal of the trial was to measure effect of *Limoniuss canus* wireworm damage to plant stand per 1/3 square meter. Plant stand was counted on June 8, and was harvested for yield on July 26 by Winter Steiger Small Plot Combine. The data below show a strong relationship between plant stand reduction and yield attributed to wireworm damage. Practical use rates for commercial farming fall in the “B” range with other trials showing Cruiser at 0.35 equivalent to Gaucho 480 at 0.32. The total moisture in ppt. and irrigation was set at 13.5 inches for this trial to mimic the typical low intermediate rainfall zone.

Table 1. LSD All-Pairwise Comparisons Test for ssw Bu/Ac

Treatment	Rate/Cwt	Mean Bu/AC
Poncho	0.77	43.40A
Gaucho 480	1.00	43.13A
Cruiser	0.80	42.25B
Poncho	0.20	40.20B
Poncho	0.10	39.90B
Gaucho 480	0.32	39.88B
Gaucho 480	0.16	37.83C
Lindane	1.00	32.85D
Gaucho 480	0.16 + DE + MG	32.28D
DE		32.00D
RXT		27.30E
UTC		25.83E
Alpha	0.1	Standard Error for Comparison 6.3729
Critical T Value	1.688	Critical Value for Comparison 10.759

Table 2. LSD All-Pairwise Comparisons Test of Plant Stand 1/3 M SQ

Treatment	Rate/Cwt	Mean Plant Stand
Poncho	0.77	15.25A
Poncho	0.20	14.75A
Gaucho 480	1.0	13.00B
Poncho	0.10	12.75B
Lindane	1.0	12.50B
Cruiser	0.80	12.25C
Gaucho 480	0.32	11.25C
Gaucho 480	0.16	10.50D
DE		9.75D
RXT		9.75D
UTC		8.50E

Alpha 0.1 Standard Error for Comparison 0.8114

Critical T Value 1.697 Critical Value for Comparison 1.3771

There are 5 groups (A, B, etc.) in which the means are not significantly different from one another.