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Section IV.

Winter Wheat Rate Study Trial For Cereal Leaf Beetle 2007 – Bayer Products

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Location Central Ferry WA
Seeding Date October 30, 2006
Variety Rod/Madsen 50/50 mix
Seeded by Hegi Cone Plot Seeder on 7 rows x 48 Inches x 20 feet replicates with 4 replicates per treatment.
Emergence date was November 09, 2006.
Cereal Leaf Beetle percent counted June 24, 2007 at early boot stage.
Harvest by Winter Steiger Plot Combine on July 12, 2007. No aphids were found throughout the trial.
Hippodamia convergens were present in large numbers from February to boot stage and fed on CLB larvae/eggs in all treatments.

One-Way AOV for: CLB%

Source	DF	SS	MS	F	P
Between	11	1688.61	153.510	11.2	0.0000
Within	36	493.55	13.710		
Total	47	2182.16			
Grand Mean	10.938	CV	33.85		
Component of variance for between groups				34.9500	
Effective cell size	4.0				

Observations per Mean 4
Standard Error of a Mean 1.8513
Std Error (Diff of 2 Means) 2.6182

LSD All-Pairwise Comparisons Test CLB%

Treatment	Rate Fl/Oz	Mean CLB%
Raxil XT	check	25.00 A
Cyfluthrin XL	seed treatment	20.00 A
Gauche XT/Cyfluthrin		13.75 B
Gauche 600 FS	0.128	10.00 C
Gauche 600 FS	0.320	10.00 C
Poncho 600FS	0.128	10.00 C
Poncho 600 FS	0.256	10.00 C
Poncho 600 FS	0.510	10.00 C
Gauche XT	1.00	7.500 D
Poncho 600 FS	0.790	7.500 D
Cruiser 5 S	0.790	5.025 D
Gauche 600 FS	0.144	2.505 E

Alpha 0.05 Standard Error for Comparison 2.6182
Critical T Value 2.028 Critical Value for Comparison 5.3099
There are 4 groups (A, B, etc.) in which the means are not significantly different from one another.

In this lagniappe trial, sampled for activity against Cereal Leaf Beetle larvae 204 days after emergence, CLB were actively feeding on emerging flag leaves at early boot stage. The seed treatment insecticides all showed some degree of CLB percent reduction except for those in Group A. These treatments were effective in reducing CLB populations until late boot/anthesis stage at which time the CLB adults began emigrating to adjacent spring wheat. However CLB economic injury thresholds are 20% + leaf damage with 40% of plants infested.