

**WIREWORM MANAGEMENT IN SPRING WHEAT 2006A
VALENT INSECTICIDE TRIAL**

David E. Bragg
WSU Dryland Extension Entomologist
Patti Carr WSU Extension
Kurt Tetrick USDA-ARS
P O Box 190 Pomeroy WA 99347-0190
509/843-3701
braggd@wsu.edu

Protocol

Treatments = 4 reps in RCBD of 7 rows x 20 feet.
Seeding date 4-11-2006 using Hegi Cone Seed Drill – Variety **Wawawai** SWSW. 2 contract confidential Valent products included in trial compared to UTC and Gaucho 480 standards. Emergence 4-19-2006. Plant stand was counted on 10 DPE (4-28-2006). Pre-harvest plant stand was counted on July 21. Grain yields were sampled on July 24, 25, & 26, 2006 by hand threshing through a stationary machine. Grain yield are reported under CLB trials

Abstract

The tabular data for plant stand at 10 DPE show very similar data for the experimental products due to **wireworm** (*Limonijs canus*) stand reduction at 10 DAE. The UTC is SD all other treatments.
at higher rates, Gaucho 480 at 31 grams, and V10170 at 10 grams ai/kg/ha. Gaucho 480 at 5 grams, V10170 at 5 grams, a lower stand pair, with the UTC being SD all other treatments. The plant stand data at Pre –Harvest 07/21/06 show all treatments were SD the UTC. Extensive tillering w/o heading including “T0 tillers” resulted in overall lower stands except where blank TO tiller separated from initial seedlings at 10 DPE. This phenomenon is often reported from the Variety Wawawai. Cereal Leaf Beetle attack at boot/early flag leaf stage reduced yield overall. The wireworm data for this trial are well reflected in the tests for plant stand counts at 10 DAE and also at Pre-Harvest. Seed treatment insecticides in the trial did give good wireworm control over the UTC.

Table 1. LSD All-Pairwise Comparisons Test Plant Stand 10 DPE

Treatment	Rate grams/ha ai	Mean plant stand	
V10112	50 grms/Ha	19.000	A
V10170	30	18.000	A
V10170	50	17.750	B
V10112	10	17.500	B
V10112	30	17.500	B
GAUCHO 480	31	17.000	B
V10170	10	16.500	B
GAUCHO 480	5	14.750	C
V10170	5	14.500	C
UTC	---	11.500	D

Alpha 0.01 Standard Error for Comparison 1.1583

Critical T Value 2.750 Critical Value for Comparison 3.1853

Table 2. LSD All-Pairwise Comparisons Test for plant stand at pre-harvest July 21.

Treatment	Rate ai grams/ha	Mean plant stand	
V10170	30	18.250	A
GAUCHO 480	5	18.000	A
V10170	10	18.000	A
V10112	10	17.500	B
V10170	10	17.250	B
V10112	30	17.250	B
V10112	50	17.250	B
GAUCHO 480	31	16.500	B
V10170	50	15.500	B
UTC	---	13.750	C

Alpha 0.01 Standard Error for Comparison 1.3525

Critical T Value 2.750 Critical Value for Comparison 3.7193