

Section IV  
Cereal Crop Pests

Spring Wheat – Valent, Bayer, Syngenta Products

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RCBD replicates of 4 replicates per treatment were seeded by Hegi Cone Seeder on 7 x 6 inch rows x 4 feet wide by 20 feet long at Central Ferry WA. Alpowa ssws was seeded at 70 lbs per acre into 48 F soil on 4/5/2007. Seedling emergence occurred on 4/13/2007. The trial was rated for plant stand (wire worm damage) on 5/10/2007 by counting 1/4 meter square. The trial was harvested by Winter Steiger Plot Combine on 8/10/2007.

<u>Treatments under Trial</u>	<u>Rate grams/Ha</u>
1 UTC	-----
2 Gaucho 600 FS A	5.0
3 Gaucho 600 FS B	31.56
4 V-10170 (VA)	5.0
5 V-10170 (VB)	10.0
6 V-10170 (VC)	30.0
7 V-10170 (VD)	50.0
8 Cruiser 5 FS (CruA)	10.0
9 Cruiser 5 FS (CruB)	30.0

LSD All-Pairwise Comparisons Test for Plant Stand (wire worm stand reduction)

<u>Treatment</u>	<u>Mean plant stand 1/4 meter</u>
3 Gaucho B	17.50 A
7 V-10170 D	17.00 A
9 Cruiser B	16.25 A
6 V-10170 C	16.00 A
8 Cruiser A	10.75 B
2 Gaucho A	12.75 B
5 V-10170 B	12.75 B
UTC	12.25 B
V-101770 A	10.75 B

Alpha 0.05

Standard Error for Comparison 1.2729

Critical T Value 2.052 Critical Value for Comparison 2.6119

There are 2 groups (A and B) in which the means are not significantly different from one another.

### LSD All-Pairwise Comparisons Test for yield

Treatment	Mean Yield bu/ac	
VB	44.500	A
VC	44.250	A
VD	44.250	A
GaB	43.750	A
VA	43.500	A
CruB	42.500	A
CruA	41.000	A
GaA	29.000	B
UTC	27.250	B

Alpha 0.05 Standard Error for Comparison 1.8257

Critical T Value 2.052 Critical Value for Comparison 3.7461

There are 2 groups (A and B) in which the means are not significantly different from one another.

Differences between treatment variables were decreased due to grain fill in secondary (sucker) tillers following a timely rain in early August in a late crop maturity season. In terms of yield all treatments were similar except for the low rate of Gaucho 600 5 grams/Ha and the UTC. Often early stand reduction will result in increased tillering by the thinned plants. Spring wheat will average 4 tillers per plant in average ppt. years but extra moisture will allow up to 7 tillers to fill with grain. The number of plants left by wireworm feeding remains the same. This would not occur in spring crops w/o June rains.