

Section V.
Cereal Crop Pests

EVALUATION OF SEED TREATMENT INSECTICIDES FOR HESSIAN FLY CONTROL
IN SPRING WHEAT

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A RCBD on-farm sized trial of Alpowa soft wheat spring wheat was seeded on the Olsen Farm near Oakesdale, Washington, 4-23-98 with 7 treatments of 4 32 x 110 feet replicates each. Seeding rate was 60 lbs per acre. Hessian fly percent infested tillers were counted at Feek's Scale 11.0, with harvest on 9-3-98. Grain bearing heads per plant were also counted. Aphids were not present throughout the trial.

All treatments were significantly different from the check expressed as bushels per acre. All treatments lowered HF infestation compared to the check, but only Gaucho 480 at 2.0 oz product cwt and Adage at 1.33 oz product cwt had no HF.

All treatments had significantly more grain bearing heads per plant than the check, and the high rates of Gaucho and Adage were significantly different from the other treatments and check.

HF% control and yield for spring wheat in the Palouse

<u>Treatment/formulation</u>	<u>Rate/product</u>	<u>Bu/Ac</u>	<u>HF%</u>	<u>Tillers/Plant</u>
Check	-----	40.33a	41.67a	4.0a
Gaucho 480	1.00 oz cwt	55.00b	16.47b	5.5ab
Adage	0.75 oz cwt	56.57b	12.50b	6.0b
Gaucho 480	1.50 oz cwt	55.10b	8.34b	6.0b
Adage	1.00 oz cwt	55.10b	12.50b	6.0b
Gaucho 480	2.00 oz cwt	55.20b	0.00c	7.5c
Adage	1.33 oz cwt	57.65b	0.00c	7.5c
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LSD(5%)		13.20	15.03	0.42
CV%		19.42	52.95	5.09

Numbers followed by the same letter are not significantly different. LSD = 0.05; ANOVA.