

Aphid and Barley Yellow Dwarf Management in Wheat using Seed Treatments and a Foliar Application of Warrior, 2001-2002

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'Southern States 555W' was planted on October 3, 2001 at Baker Farms, Inc. located near Middletown, DE. Seed treatments were applied with a hand held sprayer to a measured amount of seed placed in a cement mixer while treating to insure even coverage. The Warrior treatment was applied on Nov 1 with a CO₂ - pressurized backpack boom sprayer delivering 18 gpa @ 40 psi. The number of aphids per 3 foot of row was counted from October 23 through December 5. Plots were harvested on June 27 and yields were calculated. Data were analyzed using ANOVA and means were separated by Ryan's q-test (P=0.05).

Aphid populations were moderate. Both greenbugs and bird cherry-oat aphid were found in the plot. All treatments provided significantly better aphid control compared to the untreated check. No phytotoxicity was observed.

Treatment	Rate	Aphids per 3 foot of row				Barley Yellow Dwarf Rating	Yield BU/A
		10/23/01	10/30/01	11/06/01	12/05/01		
Cruiser	1 oz/cwt	0.25a	0.25a	0.25a	0.25a	None - Very Light	67.16a
Gauche 480	1 oz/cwt	1.00a	0.00a	0.25a	0.50a	Very Light-Light	66.56a
Gauche 480	2 oz/cwt	1.50a	0.75a	0.25a	0.25a	None- Very Light	68.60a
Warrior T	2.56 oz/A	8.25b *	18.75b *	0.25a	0.50a	None- Very Light	70.25a
Untreated	-----	11.00b	25.25b	18.5b	12.20b	Light - Moderate	62.71a

* Not treated until Nov 1, 2001

Means within a column followed by the same letter are not significantly different (Ryan's q-test; P=0.05).