

2011 Valent Winter Wheat Herbicide Trial

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Pre-plant (PP) treatments were applied on September 21, 2010 with 59° F, 64% RH, partly cloudy sky and east wind at 6 mph. ‘AP503CL2’ HRWW was seeded no-till on September 28. Fall post-emergence (FPOST) treatments were applied on October 13, 2010 with 55° F, 30% RH, cloudy sky and southwest wind at 2 mph. Treatments were applied with a tractor mounted CO₂ propelled plot sprayer delivering 10 gpa at 30 psi through PK-01E80 nozzles to a 5 foot wide area the length of 10 by 28 foot plots. The soil is classified as a silt-loam with a pH of 6.2, OM of 3.2% and 85% hrsw residual ground cover. The trial was a randomized complete block design with four replications. The trial had a pre-plant burndown application of 24 oz/A Roundup WeatherMax on September 12, 2010 and an application of 12 oz/A Huskie herbicide + 8 oz/A Headline fungicide on June 4, 2011 to control broadleaf weeds and foliar diseases. Plots were evaluated for crop injury on October 22, 2010 and on May 19, 2011, and the trial was harvested on August 5, 2011.

Treatment	Product rate	App. Timing	10/22 inj	5/19 inj	Test weight	Grain yield
	oz/A		%*	%**	lbs/bu	bu/A
1 Untreated			0	0	--	11.2
2 Valor SX	2.0	PP	0	12	--	7.9
3 Fierce	3.0	PP	0	35	52.2	26.7
4 PrePare + NIS	0.3 + 0.25%	PP	0	5	52.6	22.7
5 Valor SX	2.0	FPOST	2	0	57.0	20.6
6 Valor SX + Harm Ext + NIS	2.0 + 0.6 + 0.25%	FPOST	10	0	54.1	17.5
7 Everest + NIS	0.6 + 0.25%	FPOST	3	18	57.3	30.0
8 PowerFlex + Basic Blend	3.5 + 1%	FPOST	4	50	53.7	27.8
9 Valor SX fb	2.0	PP				
PowerFlex + Basic Blend	3.5 + 1%	FPOST	1	22	53.8	27.4
10 Fierce fb	3.0	PP				
PowerFlex + Basic Blend	3.5 + 1%	FPOST	3	28	55.0	35.5
C.V. %			133	168	4.1	31.5
LSD .05			4	NS	NS	10.4

NS = no statistical difference between treatments

*Crop injury on October 22, 2010 = % leaf speckling

*Crop injury on May 19, 2011 = % crop stunting

Summary

Fall crop injury symptoms were leaf speckling and observations were generally minor with the exception Valor SX + Harmony Extra which was quite obvious. Crop stunting was observed in the spring and was generally quite evident but inconsistent with most treatments. Grain yields did not correspond to injury symptoms but were more related to weed control (data not collected).