

## **Evaluation of Huskie in Winter Wheat**

A field study was conducted to evaluate the efficacy of Huskie herbicide in winter wheat at the High Plains Agricultural Laboratory located near Sidney, NE. The experimental design was a randomized complete block with three replications. Plots were 10 feet wide by 40 feet long. Herbicide treatments were applied with an ATV-mounted sprayer set to deliver 11 gallons/acre at 3 miles/hour and 20 psi. Winter wheat ('Millenium') was no-till seeded into pea stubble on September 20, 2006 at a rate of 55 pounds/acre. The study was located on an Alliance silt loam soil with an organic matter content of 2.4% and a pH of 7.6. Herbicide treatments were applied on April 21, 2007 to winter wheat plants that had 1 to 3 tillers. Weeds present at time of application were kochia and Russian thistle. Weeds were approximately 1 inch in height.

Huskie herbicide is a premix containing pyrasulfotole and bromoxynil (Buctril) plus a crop safener. Pyrasulfotole is the first wheat herbicide that is an HPPD inhibitor (Group 27). Balance and Callisto are two corn herbicides with this site of action.

Huskie provided excellent control of Russian thistle at rates of 11 or 15 oz/A, with or without MCPA ester. Kochia control was best when MCPA ester was added to 11 oz/A of Huskie. This was the only treatment that provided significantly greater wheat yield than the check treatment. Weed control with Ally + 2,4-D was poor. The kochia and Russian thistle in this field contained about 50% SU-resistant kochia and Russian thistle populations. The control of herbicide-resistant weeds may be one of the primary uses of Huskie herbicide. No crop injury was observed.

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Treatment	Rate	Weed control on June 6, 2007		Wheat yield bu/ac
		Kochia	Russian thistle	
		%		
Check		0	0	37
Huskie NIS AMS	11 oz/A 0.5% v/v 0.5 lb/A	72	95	38
Huskie NIS AMS	15 oz/A 0.5% v/v 0.5 lb/A	83	97	40
Huskie MCPA ester NIS 32-0-0	11 oz/A 12 oz/A 0.5% v/v 2 qt/A	92	97	42
Ally 2,4-D ester NIS	0.10 oz/A 5.3 oz/A 0.5% v/v	43	67	39
LSD (5%)		16	23	4