

## **Potential Tank Mix Partners for CleanWave in Winter Wheat**

A field study was conducted to evaluate the efficacy of CleanWave herbicide with various tank mix partners 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 2.6% and a pH of 6.8. Herbicide treatments were applied on April 28, 2007 to winter wheat plants that had 3 to 4 tillers and a 6- to 8-inch extended leaf height. Weeds present at time of application were kochia and Russian thistle. Weeds were approximately 1 inch in height.

CleanWave applied at 14 oz/A provided excellent control of kochia and Russian thistle, with or without tank mix partners. When applied at 7 oz/A, Cleanwave provided only fair control of these weeds. The addition of Harmony GT + Express + Ally XP or the 4:1 ratio of Harmony GT + Express to CleanWave at 7 oz/A improved kochia and Russian thistle control compared to CleanWave at 7 oz/A by itself. The addition of the 1:1 ratio of Harmony GT + Express to CleanWave at 7 oz/A did not improve weed control. The kochia and Russian thistle in this field contained about 50% SU-resistant kochia and Russian thistle populations. This undoubtedly affected the efficacy of the tank mix partners in this study.

Excellent spring moisture resulted in excellent winter wheat growth, which was very competitive with weeds. No yield differences were observed (data not shown).

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Treatment <sup>a</sup>	Rate	Weed Control on June 15, 2007	
		Kochia	Russian thistle
		%	
Harmony GT Express CleanWave	0.48 oz/A 0.12 oz/A 7 oz/A	93	92
Harmony GT Express CleanWave	0.8 oz/A 0.2 oz/A 7 oz/A	92	92
Harmony GT Express CleanWave	0.48 oz/A 0.12 oz/A 14 oz/A	95	95
Harmony GT Express CleanWave	0.8 oz/A 0.2 oz/A 14 oz/A	100	98
Harmony GT Express Ally XP CleanWave	0.15 oz/A 0.075 oz/A 0.05 oz/A 7 oz/A	87	85
Harmony GT Express Ally XP CleanWave	0.3 oz/A 0.15 oz/A 0.1 oz/A 7 oz/A	92	90
Harmony GT Express Ally XP CleanWave	0.15 oz/A 0.075 oz/A 0.05 oz/A 14 oz/A	97	95
Harmony GT Express Ally XP CleanWave	0.3 oz/A 0.15 oz/A 0.1 oz/A 14 oz/A	95	88
Harmony GT Express CleanWave	0.2 oz/A 0.2 oz/A 7 oz/A	77	68
Harmony GT Express CleanWave	0.4 oz/A 0.4 oz/A 7 oz/A	77	68
Harmony GT Express CleanWave	0.2 oz/A 0.2 oz/A 14 oz/A	100	98
Harmony GT Express CleanWave	0.4 oz/A 0.4 oz/A 14 oz/A	100	98
CleanWave	7 oz/A	77	65
CleanWave	14 oz/A	98	97
Check		0	0
LSD (5%)		22	28

<sup>a</sup> NIS was added to all treatments at 0.25% v/v