

Evaluation of West Central adjuvant systems for control of volunteer corn in soybean at Rochester, MN, in 2008.

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The objective of this trial was: To evaluate WestCentral adjuvant systems for control of volunteer corn in soybean. The research site was a Lawler loam series with a pH of 6.7 and soil test P and K levels of 36 ppm and 146 ppm, respectively. The field was spring disked and field cultivated prior to planting. The soybean variety, NK S12-P4 with Cruiser Max, was planted on June 10, 2008, at a depth of 1.5 inches in 30 inch rows at 150,000 seeds per acre. A randomized complete block design was used with four replications. Postemergence treatments were applied with a tractor-mounted sprayer delivering 20 gpa at 32 psi using Turbo Tee 11002 nozzles. Evaluations of the plots were taken on July 11, 18, and 25. Application dates, environmental conditions, and weed stages are listed below. (University of Minnesota Extension, Regional Office – Rochester).

Date	7/2
Treatment	POST I
Temperature (F)	
Air	80
soil	91
Relative Humidity (%)	39
Wind (mph)	13
Soil moisture	Inadequate
Bean	
stage	V1-V2
height (inch)	4.0
Volunteer Corn	
weed density (ft ²)	7.5
height (inch)	10.5
Rainfall after each application (inch)	
week 1	0.87
week 2	0.92
week 3	0.60

Treatment	Rate	Volunteer Corn Control		
		(rate/A)		
		(%)		
POST I		7/11	7/18	7/25
Buccaneer Plus + Volunteer + N-Tense	16 fl oz + 3 fl oz + 0.5% v/v	77	80	82
Buccaneer Plus + Volunteer + WCO73	16 fl oz + 3 fl oz + 0.75% v/v	74	82	81
Buccaneer Plus + Volunteer + N-Tense + Trophy Gold	16 fl oz + 3 fl oz + 0.25% v/v + 0.25% v/v	85	91	94
Buccaneer Plus + Premium AMS	16 fl oz + 1 lb	18	13	18
Buccaneer Plus + N-Tense	16 fl oz + 0.5% v/v	24	45	33
	LSD (P=0.10)	5	5	7