Effect of adjuvants tank-mixed with Buccaneer Plus on common lambsquarters in corn at Lamberton, MN in 2008.

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The objective of this study was to evaluate adjuvants tank-mixed with Buccaneer Plus for common lambsquarters control in corn. This study was conducted on a Canisteo loam soil containing 8.4% organic matter, pH 7.7 and soil test P and K levels of 100 and 600 lb/A, respectively. A randomized complete block design with four replications and a plot size of 10 by 30 ft was used. The site was planted to soybeans in 2007 and was fall chiseled. The area was fertilized with 150 lbs of nitrogen applied as anhydrous ammonia. On May 20, 2008, Pioneer '37Y13' glufosinate resistant/glyphosate resistant field corn was planted in 30-inch rows at a seeding rate of 33,000 seeds/A. All treatments were applied with a tractor-mounted sprayer delivering 20 gpa at a pressure of 40 psi. The sprayer was equipped with 8002 flat-fan nozzles spaced 15 inches apart on the boom. Application dates, environmental conditions, plant sizes and rainfall data are listed below:

June 18						
POST						
77						
80						
32						
calm						
p. cloudy						
dry						
V4						
10						
2 to 4						
3 to 5						
2						
6 to 8						
3 to 5						
17						
Rainfall after application (inch)						
0.00						
0.61						
0.00						

(Southwest Research and Outreach Center, University of Minnesota, Lamberton).

Table. Effect of adjuvants tank-mixed with Buccaneer Plus on common lambsquarters in corn at Lamberton, MN in 2008 (Getting).

Treatment	Rate	Giant foxtail			Common lambsquarters			
		Jun 30	Jul 1	0 Sep 25	Jun 30	Jul 10	Sep 25	Yield⁵
POST (3 to 5-inch weeds)	(oz/A, lb/A or %)	(% control)					(bu/A)	
Buccaneer Plus	16 oz	100 a	98 a	100 a	58 h	76 d	80 e	131 a
Buccaneer Plus + Premium AMS	16 oz + 1 lb	100 a	98 a	100 a	75 g	86 bc	91 d	140 a
Buccaneer Plus + N-Tense	16 oz + 0.5%	100 a	98 a	100 a	86 de	91 ab	95 ab	146 a
Buccaneer Plus + WC073	16 oz + 0.75%	100 a	98 a	100 a	85 ef	85 c	91 cd	146 a
Buccaneer Plus + WC060	16 oz + 0.5%	100 a	98 a	100 a	81 f	88 bc	92 cd	147 a
Buccaneer Plus + Laudis + N-Tense	16 oz + 2 oz + 0.5%	100 a	98 a	100 a	96 ab	96 a	98 a	139 a
Buccaneer Plus + Laudis + WC073	16 oz + 2 oz + 0.75%	100 a	98 a	100 a	96 ab	96 a	97 ab	137 a
Buccaneer Plus + Impact + N-Tense	16 oz + 0.5 oz + 0.5%	100 a	98 a	100 a	94 a-c	95 a	97 ab	148 a
Buccaneer Plus + Impact + WC073	16 oz + 0.5 oz + 0.75%	100 a	98 a	100 a	90 cd	91 ab	95 ab	136 a
Buccaneer Plus + Impact + N-Tense	16 oz + 0.33 oz + 0.5%	100 a	98 a	100 a	97 a	94 a	96 ab	148 a
Buccaneer Plus + Impact + WC073	16 oz + 0.33 oz + 0.75%	100 a	98 a	100 a	93 bc	94 a	94 bc	143 a
<u>Check</u>								
Weedy check	-	0 b	0 b	0 b	0 i	0 e	0 f	70 b
	LSD (0.10)	ns	ns	ns	4.2	5.1	3.1	26.5

^b Yield adjusted to 15.5% moisture.