

## Effect of spray volume on weed control in Liberty corn

The objective of this study was to determine the effect of spray volume on weed control with Liberty. To be most effective, Liberty needs excellent spray coverage, warm temperatures, sunny conditions, and high humidity. Applying Liberty at low spray volumes will result in less spray coverage and possible inferior weed control. The study was conducted as a single rep demo. Treatments were applied June 12 to 2- to 4-inch weeds. Treatments were applied at a spray volume of 5 or 15 gpa.

Treatments applied at 15 gpa consistently provided superior weed control compared to 5 gpa. In some cases, this extra weed control may be the difference between weeds going to seed or not. This study also demonstrated the extra weed control obtained by adding AMS to Liberty.

Title. Effect of spray volume on weed control in Liberty corn. (1745)								
Treatment <sup>ab</sup>	Rate	Spray Volume gal/A	Weed Control <sup>c</sup>					
			Koch		Colq		Yeft	
			Jun-23	Jul-17	Jun-23	Jul-17	Jun-23	Jul-17
			-----%					
Untreated			0	0	0	0	0	0
Liberty + AMS	29 oz	15	73	70	60	60	85	85
Liberty + AMS	29 oz	5	63	60	50	50	80	80
Liberty + Exp + AMS	29 oz + 8 oz	15	94	96	99	99	80	78
Liberty + Exp + AMS	29 oz + 8 oz	5	88	82	92	95	75	70
Liberty + Exp	29 oz + 8 oz	15	82	82	82	84	80	78
Liberty + Exp	29 oz + 8 oz	5	80	76	70	70	75	70
<sup>a</sup> AMS applied at 4.41 gal/100 gal								
<sup>b</sup> Exp=Experimental herbicide								
<sup>c</sup> Koch=Kochia; Colq=Common lambsquarters; Yeft=Yellow foxtail								