<u>Glyphosate-resistant volunteer corn control in glyphosate-resistant soybeans at Lamberton, MN in</u> <u>2004.</u> Getting, Jodie K., and Bruce D. Potter. The objective of this study was to evaluate tank-mix partners with glyphosate for the control of glyphosate-resistant volunteer corn in glyphosate-resistant soybeans. This study was conducted on a Normania loam soil containing 4.2% organic matter, pH 6.5 and soil test P and K levels of 60 and 316 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 oats in 2003 and was fall chiseled. On May 10, 2004, Asgrow 'AG 2107' glyphosate-resistant soybeans were planted in 30-inch rows at a seeding rate of 160,000 seeds/A. Glyphosate-resistant corn was broadcast seeded over the entire plot area. 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:

Date	June 28
Treatment	POST II
Temperature (F)	
air	73
soil (4 inch)	68
Relative humidity	33
(%)	
Wind (mph)	W 2-5
Sky	clear
Soil moisture	dry
Soybean	
leaf no.	V3
height (inch)	11
Volunteer corn	
leaf no.	V7
height (inch)	18
no./ft ²	4
Rainfall after application	(inch)
1 week	0.75
2 week	1.55
3 week	0.02

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

Table.	Glyphosate-resistant volunteer corn control in glyphosate-resistant soybeans at Lamberton,	,
MN in	2004 (Getting and Potter).	

· · · · · · · · · · · · · · · · · · ·		Volunteer corn		
Treatment ^a	Rate	7/19	7/26	9/20
	(oz/A, lb/A or %)	(% control)		
POST I (4-inch weeds)/POST II (18-inch volunteer	<u>corn)</u>			
Roundup Weathermax/	22 oz/	89	84	80
Select + Roundup Weathermax + AMS	4 oz + 22 oz + 3.4 lb			
Roundup Weathermax/	22 oz/	97	96	97
V-10137 + Roundup Weathermax + AMS	8 oz + 22 oz + 3.4 lb			
Roundup Weathermax/	22 oz/	85	78	78
Select + Roundup Weathermax + AMS	3 oz + 22 oz + 3.4 lb			
Roundup Weathermax/	22 oz/	97	97	97
V-10137 + Roundup Weathermax + AMS	6 oz + 22 oz + 3.4 lb			
Roundup Weathermax/	22 oz/	92	90	90
Fusilade DX + Touchdown Total + AMS	4 oz + 24 oz + 3.4 lb			
Roundup Weathermax/	22 oz/	98	97	97
Fusilade DX + Touchdown Total + COC + AMS	4 oz + 24 oz + 0.5% + 3.4 lb			
Roundup Weathermax/	22 oz/	96	94	96
Fusilade DX + Touchdown Total + AMS	6 oz + 24 oz + 3.4 lb			
Roundup Weathermax/	22 oz/	96	95	96
Fusilade DX + Touchdown Total + COC + AMS	6 oz + 24 oz + 0.5% + 3.4 lb			
Roundup Weathermax/	22 oz/	100	99	98
Assure II + Roundup Weathermax + AMS	5 oz + 22 oz + 3.4 lb			
Check				
Weedy check		0	0	0
	LSD (0.10)	3.4	4.6	5.4

^a COC = crop oil concentrate; AMS = spray grade ammonium sulfate.