Control of volunteer glyphosate resistant corn with Targa, Select, Select Max and Fusilade in glyphosate resistant soybeans at Lamberton, MN in 2007. Getting, Jodie K. The objective of this study was to evaluate Targa, Select, Select Max, and Fusilade tank mixed with NIS, COC, AMS and glyphosate for 8 to 12-inch volunteer corn control in soybeans. This study was conducted on a Normania loam soil containing 4.7% organic matter, pH 6.3 and soil test P and K levels of 34 and 380 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 corn in 2006 and was fall chiseled. Glyphosate resistant corn was broadcast seeded over the entire plot area. On May 19, 2007, Ziller '7186' glyphosate resistant soybeans were planted in 30-inch rows at a seeding rate of 160,000 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:

Date	June 13
Treatment	POST
Temperature (F)	
air	79
soil (4 inch)	82
Relative humidity (%)	58
Wind (mph)	S 10
Sky	p. cloudy
Soil moisture	dry
Soybean	
leaf no.	V3
height (inch)	6
Volunteer corn	
leaf no.	4-collar
height (inch)	8 to 12
no./ft²	6
Rainfall after application	(inch)
1 week	1.43
2 week	0.17
3 week	0.00

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

Table. Control of volunteer glyphosate resistant corn with Targa, Select, Select Max and Fusilade in glyphosate resistant soybeans at Lamberton, MN in 2007 (Getting).

		Volunteer corn			
Treatment ^a	Rate	6/20	6/26	7/9	8/21
POST (8 to 12-inch volunteer corn)	(oz/A or %)	-(% control)-		-	
Targa + Touchdown Total + NIS + AMS	4 oz + 24 oz + 0.125% + 2.5 lb	91	98	99	99
Targa + Touchdown Total + COC + AMS	4 oz + 24 oz + 0.5% + 2.5 lb	92	99	100	100
Targa + Touchdown Total + NIS + AMS	5 oz + 24 oz + 0.125% + 2.5 lb	94	99	99	99
Select + Touchdown Total + NIS + AMS	4 oz + 24 oz + 0.125% + 2.5 lb	90	98	100	99
Select Max + Touchdown Total + NIS + AMS	6 oz + 24 oz + 0.125% + 2.5 lb	91	100	100	100
Fusilade + Touchdown Total + COC + AMS	4 oz + 24 oz + 0.5% + 2.5 lb	91	97	100	100
Check					
Volunteer glyphosate corn check	-	0	0	0	0
(Touchdown Total + AMS)					
•	LSD (0.10)	1.6	2.3	1.0	1.6

^a COC = Agriliance Prime Oil COC, crop oil concentrate; NIS = Cornbelt Premier 90 NIS, nonionic surfactant; AMS = Cornbelt Premier AMS, spray grade ammonium sulfate.