

Control of 16 to 20-inch volunteer glyphosate resistant corn with Select Max in glyphosate resistant soybeans at Lamberton, MN in 2007. Getting, Jodie K. The objective of this study was to evaluate V-10207 and Select Max tank mixed with glyphosate for 16 to 20-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 21
Treatment	POST
Temperature (F)	
air	66
soil (4 inch)	74
Relative humidity (%)	80
Wind (mph)	E 3
Sky	p. cloudy
Soil moisture	dry
Soybean	
leaf no.	V4
height (inch)	10
Volunteer corn	
leaf no.	6-collar
height (inch)	16 to 20
no./ft ²	6
Rainfall after application (inch)	
1 week	0.17
2 week	0.00
3 week	0.00

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

Table. Control of 16 to 20-inch volunteer glyphosate resistant corn with Select Max in glyphosate resistant soybeans at Lamberton, MN in 2007 (Getting).

Treatment ^a	Rate	Volunteer corn			
		7/2	7/9	7/17	8/21
<u>POST (16 to 20-inch volunteer corn)</u>	(oz/A, qt/A or % v/v)	-(% control)-			
Select Max + Roundup Original Max + AMS	6 oz + 22 oz + 4 qt	90	93	99	100
Select Max + Roundup Original Max + AMS	9 oz + 22 oz + 4 qt	91	95	99	100
Select Max + Roundup Original Max + AMS	14 oz + 22 oz + 4 qt	93	98	100	100
Select Max + Roundup Original Max + AMS + NIS	9 oz + 22 oz + 4 qt + 0.25%	95	94	99	100
V-10207 + Roundup Original Max + AMS	4 oz + 22 oz + 4 qt	95	97	99	100
V-10207 + Roundup Original Max + AMS	6 oz + 22 oz + 4 qt	93	97	98	100
V-10207 + Roundup Original Max + AMS	10 oz + 22 oz + 4 qt	94	97	99	100
<u>Check</u>					
Volunteer glyphosate corn check (Roundup Original Max + AMS)	-	0	0	0	0
	LSD (0.10)	2.4	1.8	1.5	ns

^a AMS = N-PA-K, liquid spray grade ammonium sulfate; NIS = Cornbelt Premier 90 NIS, nonionic surfactant.