

Volunteer Roundup Ready Canola Control in Roundup Ready Soybeans (2003)

RR soybeans were seeded May 13. Canola was then seeded over the top of the soybeans to simulate a volunteer situation. Individual plots were 10 x 30 ft and replicated three times. Herbicide treatments were applied to 4-leaf canola on June 10, and 6-leaf to bolting canola on June 16. Soybean had 1 trifoliolate leaf on June 10.

Treatment ^a	Rate	Canola stage	Soybean		Volunteer canola	
			Jun 14	Jun 19	Jul 2	Jul 14
			—% injury —		—% control —	
Roundup / Roundup	26 fl oz / 26 fl oz	4-lf / 6-lf	1	0	0	0
Roundup + Harmony GT	26 fl oz + 0.083 oz	4-lf	5	0	53	27
Roundup + Harmony GT	26 fl oz + 0.083 oz	6-lf		1	48	55
Roundup + Harmony GT	26 fl oz + 0.0555 oz	4-lf	3	0	45	27
Roundup + Harmony GT	26 fl oz + 0.0555 oz	6-lf		1	47	45
Roundup + Cobra	26 fl oz + 6 fl oz	4-lf	24	8	92	94
Roundup + Cobra	26 fl oz + 6 fl oz	6-lf		25	12	12
Roundup + Cobra	26 fl oz + 4 fl oz	4-lf	19	5	87	82
Roundup + Cobra	26 fl oz + 4 fl oz	6-lf		21	10	12
Roundup + Amplify	26 fl oz + 0.3 oz	4-lf	16	0	92	97
Roundup + Amplify	26 fl oz + 0.3 oz	6-lf		11	57	89
Roundup + Amplify	26 fl oz + 0.2 oz	4-lf	14	0	87	95
Roundup + Amplify	26 fl oz + 0.2 oz	6-lf		11	50	83
Roundup + Raptor	26 fl oz + 2 fl oz	4-lf	11	0	88	98
Roundup + Raptor	26 fl oz + 2 fl oz	6-lf		3	48	65
Roundup + Raptor	26 fl oz + 1 fl oz	4-lf	7	0	81	86
Roundup + Raptor	26 fl oz + 1 fl oz	6-lf		2	40	53
LSD (0.05)			3	1	13	17
CV			15	14	14	17

^aRoundup treatments were Roundup UltraMax applied with AMS at 2.5gal/100 gal.

Harmony GT, Cobra, Amplify, and Raptor were evaluated for volunteer RR canola control in RR soybeans. Each herbicide was applied at two low rates at two canola stages. The most important observation from the study was that canola is more easily controlled before the bolting stage. Cobra, Amplify, and Raptor applied at the 4-leaf canola stage provided good to excellent control. However, volunteer canola control decreased significantly when these same herbicides were applied beyond the 6-leaf stage.