

Volunteer canola control in corn 2005

212 Roundup Ready BT corn was seeded May 17 into 30-inch rows. Canola was then seeded over the top to simulate a volunteer canola (VC) situation. Herbicide treatments were applied preemergence (PRE), 3-leaf canola, and 6-leaf canola on May 19, June 16, and June 23, respectively. Individual plots were 10 x 30 ft and replicated three times.

Soil-applied Balance Pro provided excellent VC control. The postemergence herbicides Steadfast, Accent, Option, Callisto, and Distinct provided good to excellent VC control at both application timings. Atrazine and 2,4-D amine provided only fair control at the 3-leaf application.

VC control with Callisto and Distinct dropped about 10% with the later application, while the 6-leaf application of atrazine and 2,4-D amine was 15-20% lower than the 3-leaf application. Starane provided very little control at either application stage. Starane doesn't control VC very well, but causes too much injury to be considered for use in canola.

These results are generally consistent with our 2004 results. The biggest difference was with atrazine. We saw very little VC control with atrazine at 0.25 lb ai in 2004, but saw better control in 2005 with 0.375 lb ai.

Treatment	Rate	Timing	Volunteer canola	
			Jun 30	Jul 14
			—— % control ——	
Untreated			0	0
Balance Pro	3 fl oz	PRE	97	97
Steadfast + MSO + 28% N	0.75 oz + 1% v/v + 2 qt	3-leaf	98	100
Steadfast + MSO + 28% N	0.75 oz + 1% v/v + 2 qt	6-leaf	89	100
Accent + MSO + 28% N	0.5 oz + 1% v/v + 1 qt	3-leaf	94	100
Accent + MSO + 28% N	0.5 oz + 1% v/v + 1 qt	6-leaf	83	99
Option + MSO + 28% N	1.5 oz 1.5 pt 1.5 qt	3-leaf	96	100
Option + MSO + 28% N	1.5 oz 1.5 pt 1.5 qt	6-leaf	83	99
Atrazine + COC	0.375 lb ai + 1 qt	3-leaf	87	81
Atrazine + COC	0.375 lb ai + 1 qt	6-leaf	65	59
2,4-D amine	0.5 pt	3-leaf	84	75
2,4-D amine	0.5 pt	6-leaf	55	60
Callisto + COC + 28% N	3 fl oz + 1% v/v + 2.5% v/v	3-leaf	98	100
Callisto + COC + 28% N	3 fl oz + 1% v/v + 2.5% v/v	6-leaf	72	91
Starane	0.5 pt	3-leaf	35	35
Starane	0.5 pt	6-leaf	28	28
Distinct + NIS + 28% N	4 oz + 0.25% v/v + 1.25% v/v	3-leaf	90	97

Distinct + NIS + 28% N	4 oz + 0.25% v/v + 1.25% v/v	6-leaf	80	88
LSD (0.05)			9	8
CV			8	6