

Volunteer canola control in corn (2004)

Corn was seeded May 18 into 30-inch rows. Canola was seeded over the top to simulate a volunteer canola (VC) situation. Individual plots were 10 x 30 ft and replicated 3 times. Herbicide treatments were applied preemergence (PRE), 3-leaf canola, and 6-leaf canola on May 18, June 18, and June 28, respectively.

In corn, soil-applied Balance Pro provided excellent VC control. Postemergence herbicides Steadfast, Accent, and Option provided excellent VC control at both application timings. VC control with Callisto and Distinct dropped 12-13% with the 6-leaf application, while control with 2,4-D amine dropped 43%. Atrazine and Starane provided very little control at either application stage. We conducted a follow-up study in the fall and found that Starane caused 20-50% injury applied at 0.33-0.67 pt. We are not sure why Starane caused little injury in the first study.

Treatment	Rate	Timing	Volunteer canola	
			Jul 8	Jul 28
			— % control —	
Untreated			0	0
Balance Pro	3 fl oz	PRE	99	98
Steadfast + MSO + 28% N	0.75 oz + 1% v/v + 2 qt	3-leaf	99	100
Steadfast + MSO + 28% N	0.75 oz + 1% v/v + 2 qt	6-leaf	76	99
Accent + MSO + 28% N	0.5 oz + 1% v/v + 1 qt	3-leaf	98	99
Accent + MSO + 28% N	0.5 oz + 1% v/v + 1 qt	6-leaf	81	98
Option + MSO + 28% N	1.5 oz + 1.5 pt + 1.5 qt	3-leaf	99	100
Option + MSO + 28% N	1.5 oz + 1.5 pt + 1.5 qt	6-leaf	71	98
Atrazine + COC	0.25 lb ai + 1 qt	3-leaf	31	10
Atrazine + COC	0.25 lb ai + 1 qt	6-leaf	24	12
2,4-D amine	0.5 pt	3-leaf	88	87
2,4-D amine	0.5 pt	6-leaf	20	34
Callisto + COC + 28% N	3 fl oz + 1% v/v + 2.5% v/v	3-leaf	99	99
Callisto + COC + 28% N	3 fl oz + 1% v/v + 2.5% v/v	6-leaf	62	86
Starane	0.5 pt	3-leaf	0	0
Starane	0.5 pt	6-leaf	20	0
Distinct + NIS + 28%	4 oz + 0.25% v/v + 1.25% v/v	3-leaf	83	88
Distinct + NIS + 28%	4 oz + 0.25% v/v + 1.25% v/v	6-leaf	58	70
LSD (0.05)			11	13
CV			11	12