

XIV WEED CONTROL TRIAL (BASF)

Objective: Evaluate the weed control options in canola for thistle control.

Background: Control of thistles continues to be a problem for canola growers. The introduction of the various herbicide tolerant canola systems provides for varying levels of thistle control depending on the product, rate used and the timing of spraying. The introduction of new herbicides like Absolute offer the potential for improved thistle control. This product will be compared to other systems for their relative performance against thistles.

Methodology: The weed control trial includes the following treatments:

1. 45A77 CL + Absolute - 40 ac/case (Lontrel 0.17 L/ac, Odyssey 17 g/ac, Merge 0.5 L/100 L of spray solution) applied @ the 3 to 4-leaf stage of the crop.
2. 45A77 CL + Odyssey - 40 ac/case (Odyssey 17 g/ac, Merge 0.5 L/100 L of spray solution) at the 3 to 4-leaf stage of the crop.
3. DKL34-55 RR + Roundup Transorb - Two applications (0.5 L/ac each) applied @ the 1 to 2-leaf stage and 3 to 4-leaf stage of the crop.
4. InVigor 2663 LL + Liberty (1.35 L/ac applied @ 2 to 4-leaf stage), add Select (0.025 L/ac) for grassy weed control if needed.

RYCROFT

Methodology: The trial was seeded on May 29 into excellent soil moisture conditions. Each treatment was sprayed with the appropriate chemistry according to the protocol for in-crop weed removal.

Observations: Due to space limitations, the trial was placed in an area where very few weeds emerged. No differences were noted among the treatments.

Results: (a) Weed data

WEED CONTROL TRIAL (BASF) Rycroft, AB		
Treatment	Broadleaf Weeds at spraying (#/m²)	Broadleaf Weeds at swathing (#/m²)
Absolute (45A77 CL)	0	0
Odyssey (45A77 CL)	1	0
Liberty (InVigor 2663 LL)	0	0
Transorb (DKL 34-55 RR) - two app.	0	0

Note: app. - application

Results: (b) Yield and quality data

WEED CONTROL TRIAL (BASF) Rycroft, AB				
Treatment	Dockage (%)	Yield (bu/ac)	Oil (%)	Contribution Margin (\$/ac)
Absolute (45A77 CL)	9.8	24.6	45.4	42.31
Odyssey (45A77 CL)	8.9	20.8	45.8	52.12
Liberty (InVigor 2663 LL)	8.6	20.9	45.2	63.03
Transorb (DKL 34-55RR) - two app.	8.7	23.0	44.7	55.53
LSD		3.72		
CV%		10.5		

Note: app. - application

Discussion:

Yield variation was not attributed to differences in weed control, since weed densities were very low. Contribution margins reflected differences in yield, seed costs and herbicide costs.