



4Farmers ... For Farmers

Aim: Investigate the control of ryegrass using propyzamide and atrazine in Canola.
Alwyn Collins – Walbundrie. Sprayed 4 August 2010

Treatments

treatment	
1	1.0kg /ha Atrazine
2	1.0kg/ha Propyzamide
3	1.0kg/ha Atrazine + 1.0kg/ha Propyzamide
4	Control
5	1.0kg/ha Atrazine + 1.5kg/ha Propyzamide
6	0.5kg/ha Atrazine + 1.5kg/ha Propyzamide
7	Control
8	2.0kg/ha Atrazine + 1.0kg/ha Propyzamide
9	2.0kg/ha Propyzamide
10	0.5kg/ha Atrazine + 1kg/ha Propyzamide
11	0.5kg/ha Atrazine + 2kg/ha Propyzamide

Plots were 2m wide and 6m long. Ryegrass was sown in a 1m strip across the plots. Canola was seeded just after spraying.

Observation / Data

4 weeks and 8 weeks after spraying, ryegrass counts were made on each plot with photographs taken of each plot.

The sprayer applied 80L/ha. ALXR TeeJet nozzles were used at 2.5bar, spraying at 10km/hr.











RESULTS

When the plots were inspected 40 days after spraying there was no ryegrass in any of the treatments, compared to the control. Both the atrazine and the propyzamide had 100% control of ryegrass at 1kg/ha rate. The higher rate (2kg/ha) and combinations also had 100% control.

When the plots were inspected 79 days from spraying, the 1kg/ha atrazine plot had ryegrass regrowing. The 1kg/ha Propyzamide plot still had no ryegrass growing. All the plots that had 1.0, 1.5 or 2.0kg/ha propyzamide were 100% clean of ryegrass. This shows that propyzamide has a good residual control of germinating ryegrass and is a useful tool in ryegrass control.

RESULTS

Treatment	16/09/10	25/10/10
1.0kg/ha Atrazine	 A circular black plastic mulch plot on a field of bare soil with some dry plant matter.	 A circular black plastic mulch plot showing significant growth of green weeds.
1.0kg/ha Propyzamide	 A circular black plastic mulch plot on a field of bare soil with some dry plant matter.	 A circular black plastic mulch plot on a field of bare soil with some dry plant matter.
Control – no herbicide	 A circular black plastic mulch plot showing significant growth of green weeds.	 A circular black plastic mulch plot showing significant growth of green weeds.

Treatment	16/09/10	25/10/10
1.0kg/ha Atrazine + 1.0kg/ha Propyzamide	 A circular black plastic mulch plot on brown soil. A small pink marker is attached to the bottom edge of the mulch.	 The same circular black plastic mulch plot on brown soil. A small pink marker is attached to the bottom edge. Some green weeds are visible inside the plot.
2.0kg/ha Atrazine + 1.0kg/ha Propyzamide	 A circular black plastic mulch plot on brown soil. A small pink marker is attached to the bottom edge.	 The same circular black plastic mulch plot on brown soil. A small pink marker is attached to the bottom edge. Some green weeds are visible inside the plot.
2.0kg/ha Propyzamide	 A circular black plastic mulch plot on brown soil. A small pink marker is attached to the bottom edge.	 The same circular black plastic mulch plot on brown soil. A small pink marker is attached to the bottom edge. Some green weeds are visible inside the plot.
0.5kg/ha Atrazine + 1kg/ha Propyzamide	 A circular black plastic mulch plot on brown soil. A small pink marker is attached to the bottom edge.	 The same circular black plastic mulch plot on brown soil. A small pink marker is attached to the bottom edge. Some green weeds are visible inside the plot.
0.5kg/ha Atrazine + 2kg/ha Propyzamide	 A circular black plastic mulch plot on brown soil. A small pink marker is attached to the bottom edge.	 The same circular black plastic mulch plot on brown soil. A small pink marker is attached to the bottom edge. Some green weeds are visible inside the plot.