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## Post-Emergent Weed Control options in VETCH

*Location: Ungarra – Terry Young’s*

### Take home messages

- Broadleaf weeds compete very well with vetch and can cause significant yield loss
- 2,4D-B stand alone or in a mix with Diflufenican gives effective broadleaf weed control

### Why do the trial?

Vetch has limited registered post-emergent broadleaf weed control options. There are some herbicides pending registration and we wanted to have a look at these and other possible options for weed control and it’s subsequent effect on crop yield.

### How was it done?

A suitable Capello Vetch paddock was located by Terry Young at Ungarra and had a weed spectrum including capeweed, mustard, wild turnip, mallow and sow thistle.

The crop was sprayed on the 31<sup>st</sup> of July, with three replicates of each herbicide treatment.

*Table 1. Spray application details*

Spray Equipment	Airmix 01 @ 2.5 Bar = 96L/ha
Temperature	11-13 <sup>o</sup>
Humidity	82%
Wind	NNW 9-12km/hr
Cloud Cover	10-20%

## Results & Discussion

Weed control scores were taken 25 days after application and again at 85daa.

*Table 2: Herbicide Treatments and their two timing weed control scores from 0-5, where 5 is excellent control*

	Product	Rate	Adjuvant	Rate	25daa	85daa	Comments
T1	2,4D-B + Brodal	500			2.5	3.5	Reduced height/bulk. Poor on Milk Thistle
		50					
T2	2,4D-B	1000			3	3.5	**Best Control
T3	Broadstrike	25	BS1000	0.2%	3.5	2	Turnips & sow thistle got through
T4	Ecopar	600	BS1000	0.2%	2.5	2.5	Turnip & Mustard average control
T5	Ecopar + MCPA	600	BS1000	0.2%	4	2	Reduced height. Turnip better then T4
		50					
T6	LVE570 + Brodal	25	BS1000	0.1%	3	3	Turnip poor
		50					
T7	ImazaMOX	45	BS1000	0.2%	2.5	2.5	Turnip & Mustard average control
T8	ImazaMOX	60	BS1000	0.2%	3	2.5	Turnip & Mustard average control
T9	2,4D-B + Brodal + Bluespear (5:10:30)	500	BS1000	0.2%	3	3.25	Mustard got through
		50					
		1000					



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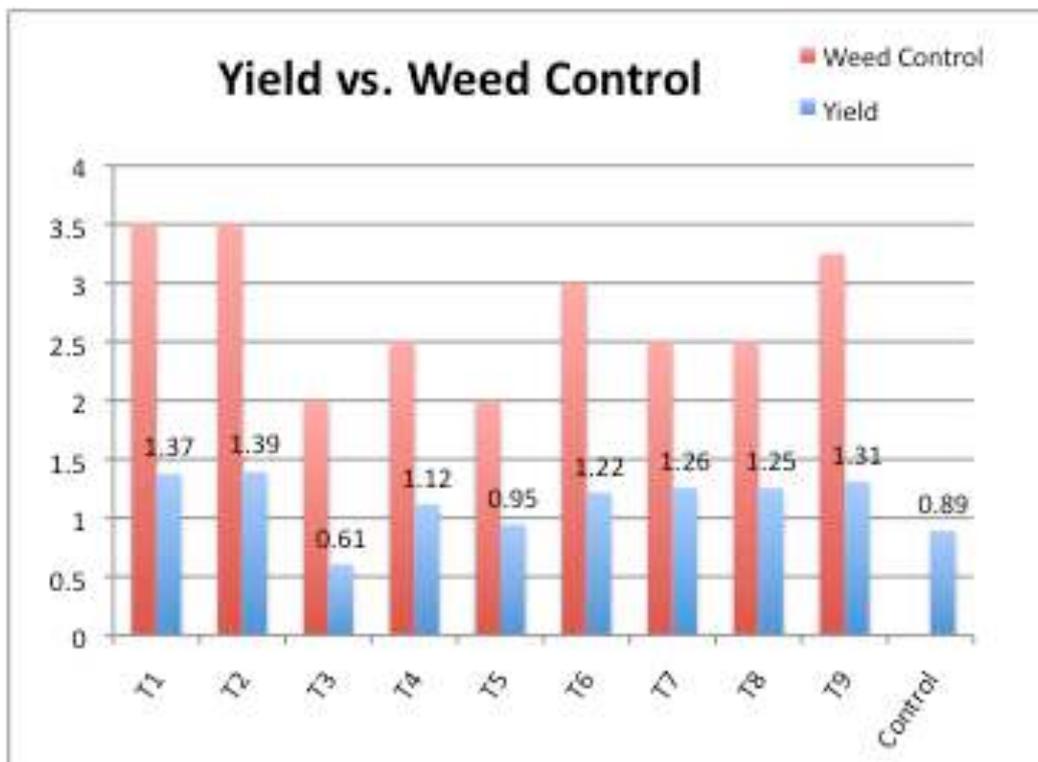
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Scores at 25daa showed that Ecopar + MCPA (4) and Broadstrike (3.5) showed the greatest early signs of weed control. This was especially interesting as these two treatments turned out to be the weakest control when assessed again at 85daa. All other treatments showed good weed control at this early assessment timing other than T7:Imazamox and T4:Ecopar alone.

These scores show that Treatment 1 & 2 have the highest level of weed control, closely followed by T9, all of which contain 2,4D-B in the herbicide mix. Diflufenican was added as a mixing partner with the lower rate of 2,4D-B to see if a more economical option could give similar weed control results, which these results show it does.

Figure 4: Yield (t/ha) vs Weed Control on a scale of 0-5 where 5=excellent weed control



The relationship between weed control and yield is quite obvious looking at the trend in the above graph, with the control yield, where no weed control was applied, backing this trend up.

The Broadstrike is the only treatment to have given a reduction in yield in comparison to the control, suggesting that crop safety may not be good enough for use on Capello vetch.

### Acknowledgements

Terry Young for the location and for trial input