

## Control of Tufted vetch (*Vicia cracca*) in the spring following fall herbicide applications

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Tufted vetch is a creeping perennial that will reproduce from root buds and seed. It is a difficult plant to manage because of its tolerance to a number of herbicides and its late emergence which typically occurs after effective herbicide have been applied. Historically, herbicide applications made to perennial weeds like field bindweed and perennial sow-thistle in the autumn months have been effective at reducing their prevalence into the next growing season. To identify whether Tufted vetch would respond similarly, a number of herbicide treatments were applied in mid September of 2008 and in the spring of 2009 their effectiveness was evaluated. In general, fall herbicide applications reduced the amount of Tufted vetch emerging when compared to the untreated check. Glyphosate when tank-mixed with Lontrel, dichlorprop/2,4-D or Distinct, provided better control than when using glyphosate alone at the 1.34 L/ac rate (540 g/L concentration). Table 1 provides a summary of vetch control and lists any re-cropping considerations that should be taken into account. It should be noted that vetch must be emerged in order for any of these treatments to work.

**Table 1.** Vetch control in the spring of 2009 following mid September herbicides applications with corresponding product rates and planting restrictions.

Treatment	Rate	Vetch Control	Planting Restrictions
Glyphosate (540 g/L)	0.67 L/ac	65%	None specified on label
Glyphosate (540 g/L)	1.34 L/ac	80%	None specified on label
Glyphosate (540 g/L) + Lontrel 360	0.67 L/ac + 80 mL/ac	97%	Can only plant to cereals and corn the following year, legume crops extremely sensitive to Lontrel 360.
Glyphosate (540 g/L) + Distinct	0.67 L/ac + 115 g/ac	94%	30 day plant back interval
Glyphosate (540 g/L) + dichlorprop/2,4-D	0.67 L/ac + 0.7 L/ac	92%	None specified on label
Glyphosate (540 g/L) + MCPA Amine	0.67 L/ac + 0.68 L/ac	65%	None specified on label

Location: Damascus, Ontario



**Figure 1 – untreated control, late May, 2009**



**Figure 2 – glyphosate + Lontrel, late May, 2009**

**Next Steps**

Future experimentation will be required to evaluate new herbicide options and to validate successful treatments. Any treatment suggestions can be forwarded to [mike.cowbrough@ontario.ca](mailto:mike.cowbrough@ontario.ca)