

Herbicide options to control glyphosate resistant weeds in soybean, winter wheat and corn.

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The following is a summary of trial data collected by the University of Guelph, Ridgetown Campus where they evaluated the control of glyphosate resistant Canada fleabane and giant ragweed.

SOYBEANS

Table 1: Control of glyphosate resistant Canada fleabane and giant ragweed in soybean with pre-plant herbicides that were tank-mixed with glyphosate

Tank-mix partner with glyphosate	Rate	Canada fleabane control	Giant ragweed control
Metribuzin (e.g. Sencor)	600 g/ac	98	64
Eragon + Merge	14.4 g/ac + 1% v/v	96	76
Integrity + Merge	150 mL/ac + 1% v/v	96	63
Amitrol 240*	3.3 L/ac	93	92
Broadstrike RC	35 g/ac	91	49
FirstRate + 28% UAN+ Agral 90	17 g/ac + 2.5% v/v + 0.25% v/v	87	84
2,4-D Ester (660 g/L)*	320 mL/ac	85	98
FirstRate + 28% UAN+ Agral 90	8.5 g/ac + 2.5% v/v + 0.25% v/v	82	77
Chlorimuron (e.g. Classic)	9 g/ac	81	49

*must be applied 7 days prior to planting soybeans

WINTER WHEAT

Table 2: Control of glyphosate resistant Canada fleabane and giant ragweed in winter wheat with post emergent herbicides.

Product	Rate	Canada fleabane control	Giant ragweed control
2,4-D Ester (660 g/L)	520 mL/ac	94	97
Infinity	330 mL/ac	92	83
Dichlorprop/2,4-D (610 g/L)	480 ml/ac	90	92
Trophy A + Trophy B	240 mL/ac + 450 mL/ac	88	90

CORN

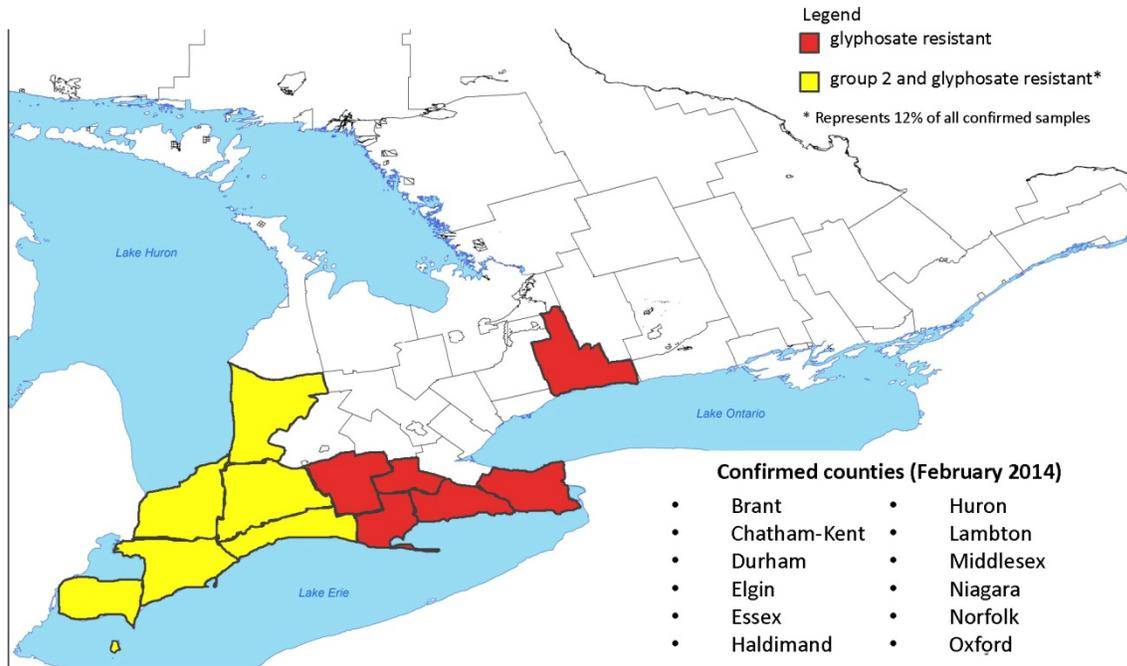
Table 3: Control of glyphosate resistant Canada fleabane and giant ragweed in corn with post emergent herbicides.

Product	Rate	Canada fleabane control	Giant ragweed control
Marksman or Propero	1.8 L/ac	Excellent	92
Banvel II or Oracle	500 mL/ac	Excellent	86
Distinct + Agral 90 + 28% UAN	115 g/ac + 0.25% v/v + 1.25% v/v	Excellent	82

References:

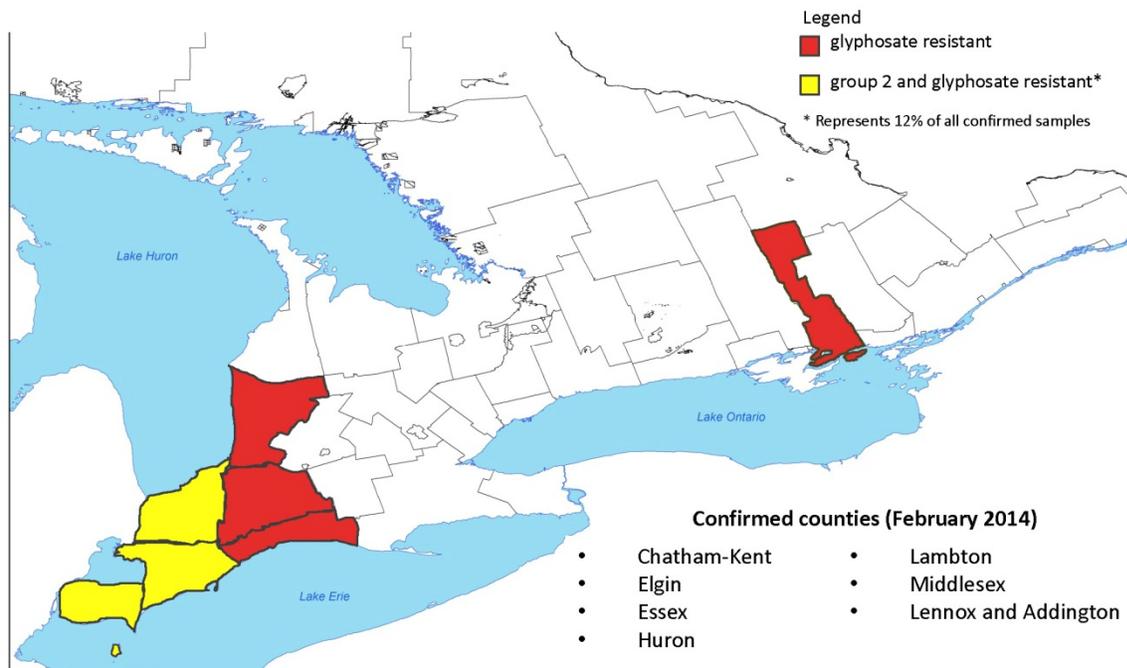
1. Byker et al. Can. J. Plant Sci (2013) 93(4): 659-667
2. Follings et al. Agricultural Science (2013) 4(4): 195-205
3. Vink et al. Can. J. Plant Sci (2012) 92(5): 913-922

Herbicide resistant Canada fleabane occurrence in southern Ontario counties

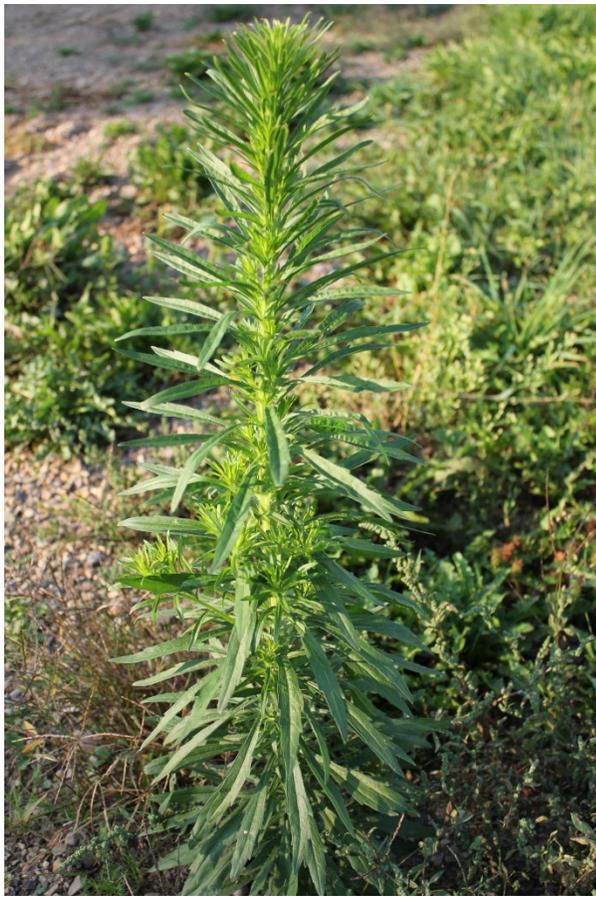
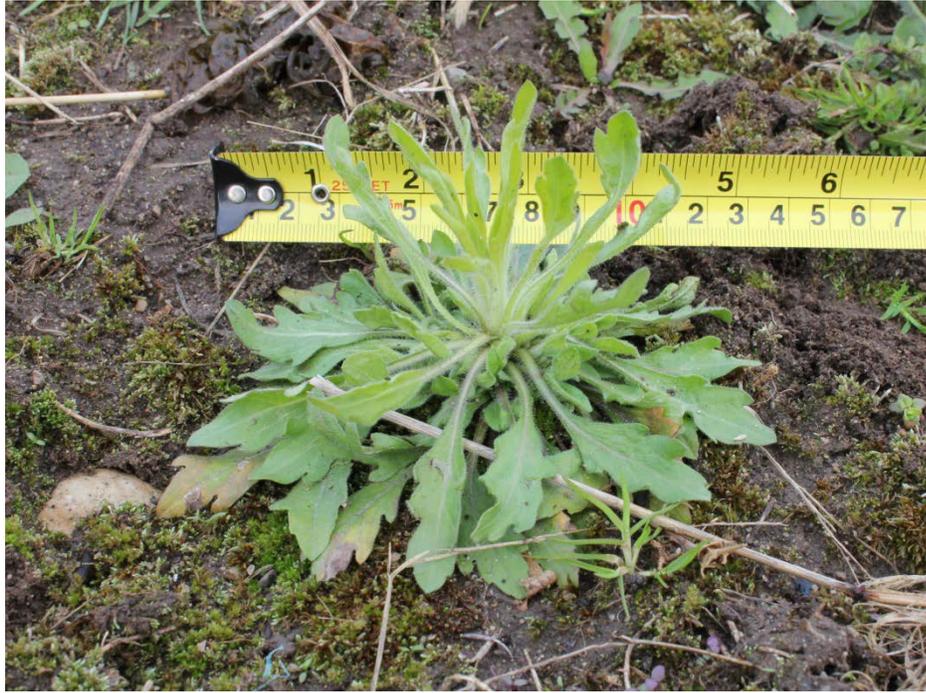


Source: Dr. Peter Sikkema, University of Guelph
Prepared by: Mike Cowbrough, OMAF/MRA

Herbicide resistant giant ragweed occurrence in southern Ontario counties



Source: Dr. Peter Sikkema, University of Guelph
Prepared by: Mike Cowbrough, OMAF/MRA



CANADA FLEABANE



GIANT RAGWEED