

## XIV RAPTOR TANK MIX TRIAL

**Objective:** To demonstrate the effectiveness of Stinger with Raptor for Canada thistle control.

**Background:** Raptor is a non-selective herbicide that is used to control weeds in Clearfield canola. Previous research has indicated that Raptor is less effective at controlling Canada thistle than other non-selective herbicides. Adding Stinger herbicide to the Raptor should provide additional control of Canada thistle.

**Methodology:** The Raptor tank mix trial was conducted using the variety 46A76. It was integrated into the Systems Comparison Trial and consisted of the following treatments in a randomized block design:

- A) Raptor (4 oz/ac) + ammonium sulfate (2.5 lb/ac) + non-ionic surfactant (3.5 oz/ac) applied at the 3-leaf stage.
- B) Raptor (4 oz/ac) + Stinger (4 oz/ac) + ammonium sulfate (2.5 lb/ac) + non-ionic surfactant (3.5 oz/ac) applied at the 3-leaf stage.

**Observation:** The site for this trial had a history of Canada thistle problems. However, an application of Curtail in 2000 resulted in good control and few Canada thistles in 2001. Where there were some Canada thistles in the plots, Raptor + Stinger gave good control compared to only slight yellowing of the Canada thistle in the Raptor treatments. There were no other agronomic differences between the two treatments.

**Results:**

RAPTOR TANK MIX TRIAL Thief River Falls, MN				
Treatment	Yield (lb/ac)	Yield (bu/ac)	Contribution Margin (\$/ac)	Oil (%)
Raptor	1679	33.6	31.47	41.5
Raptor + Stinger	1673	33.5	15.38	41.3
LSD	73.7	1.47		1.00
CV%	2.6	2.6		1.65

**Discussion:** There were no differences in yield or oil content between the treatments. The contribution margin was higher for the Raptor treatment due to the extra cost of the Stinger in the tank mix treatment.