Glyphosate Resistance Management

While glyphosate remains an efficient and valuable tool for controlling emerged weeds, resistance concerns have cast doubt on the effectiveness of glyphosate-only weed control programs. A Resistance Fighter™ brand, Halex® GT post-emergence corn herbicide is Glyphosate with Residual™ containing three active ingredients to control broadleaf weeds and grasses in one application with excellent crop safety.

Studies have found losses in U.S. crops due to uncontrolled weeds exceed $20 billion annually.1 With several resistant species, a grower could expect herbicide costs to double just to manage weeds, according to a presentation by Bill Johnson of Purdue University. Johnson and his colleagues studied a field in Indiana with glyphosate-resistant giant ragweed and marestail, and glyphosate-tolerant lambsquarters. The grower’s annual herbicide inputs skyrocketed from $19 per acre to $37 per acre due to glyphosate resistance. Additionally, a survey of farm managers and crop consultants found glyphosate-resistant weeds can reduce yields by 5.5 percent plus add $16.90 per acre for herbicide costs.2

2 Land Value Evaluation, Directions Research, August 2010.

The three modes of action in Halex GT, especially when combined with an AAtrex brand herbicide (an additional mode of action), were able to control glyphosate-resistant weeds significantly better than glyphosate alone.
Yield Comparison to One-Pass and Two-Pass Glyphosate Programs

Weak herbicide programs will result in poor weed control and reduce revenue by lowering yield. Conversely, a high-performance herbicide program will maximize yield potential for higher returns at harvest.

Trial results prove Halex GT out-yields one application of Roundup by nearly 8 bu./A and two applications of Roundup by 3 bu./A.

The Dangers of Incomplete Control

The picture at right shows an outbreak of giant ragweed in Minnesota, 19 days after being treated with 48 oz. of straight glyphosate. Weeds growing at this pace will render glyphosate helpless, cripple yield potential and contribute to the ever-expanding resistance problem.

Halex GT, which is powered by the Callisto® chemistry, owes its origin to the discovery of a natural herbicide secreted by the Callistemon plant. This is Callisto Plant Technology® and it brings unprecedented broadleaf weed control and exceptional crop safety to Halex GT that the competition cannot match.