



Leading the Fight against Glyphosate Resistance

Glyphosate weed resistance is a real and growing problem in U.S. fields. Since glyphosate-resistant horseweed (marestail) was first confirmed in row crops in 2000, **nine weeds** have been confirmed resistant to glyphosate in **20 states**.

“Syngenta estimates that more than **7 million row crop acres** were infested with glyphosate-resistant weeds last year,” says Chuck Foresman, manager of weed resistance strategies for Syngenta. “With an expected 40 percent average compounded annual growth rate, we estimate that more than **38 million row crop acres** could be infested with glyphosate-resistant weeds by 2013, or one in every four acres.”

Since 2001, Syngenta has been advising retailers and growers about the potential for glyphosate-resistant weeds, educating them on management strategies and developing solutions to control resistant weeds.

“Glyphosate is a one-in-100-year discovery,” Foresman says. “Glyphosate-tolerant technology is worth preserving, and Syngenta has been encouraging growers and retailers to take steps to do that for years.”

Syngenta hosts www.resistancefighter.com, a one-stop source for resistance management information, expert recommendations and solutions. The site features

- The Solution Builder, which creates practical, solutions customized by crop, weed, location, preferred management practices and history of resistance to fight glyphosate-resistant weeds based on answers to a few simple questions
- Answers to common glyphosate resistance questions
- University research and information
- Crop strategies to build a resistance management program
- The opportunity to join the conversation about glyphosate weed resistance, including the blog from Syngenta experts, articles and radio broadcast clips



“Resources, products and information are available to help equip growers to preserve yield potential and the value of glyphosate-tolerant systems,” says Foresman. “A proactive, integrated weed management program that includes alternating modes of action and using a residual pre-emergence herbicide is the best strategy.”



Syngenta recommendations to manage glyphosate resistance include: Use pre-emergence residual herbicides in glyphosate-tolerant crops.

- Choose herbicides or tank mixes with multiple modes of action. Products like Bicep II Magnum®, Halex® GT, Lexar®, Lumax®, Prefix®, Boundary® and Flexstar® GT herbicides from Syngenta deliver multiple modes of action. Tank mixes also can provide multiple modes of action for weed control.
- Rotate crop and herbicide systems.
- Use full herbicide rates to reduce the chances of developing resistance.
- Scout fields and develop a multiyear weed resistance management plan.

These recommendations are supported by university weed scientists. And local Syngenta experts work with retailers and growers to address resistance in the field.

Syngenta is committed to preserving today's toolbox to manage weed resistance. The company's investment in research includes developing future strategies to delay resistance and preserve valuable technology like glyphosate-tolerant crops.

"Solutions are available," says Foresman. "It's all about arming yourself with the right tools, and at Syngenta, we have many of the tools needed to manage against glyphosate resistance."

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