

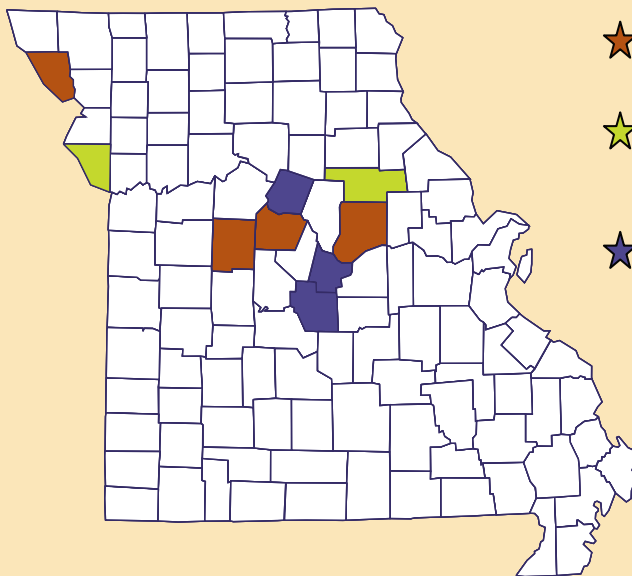


Glyphosate-Resistant Waterhemp Estimated on 200,000 Acres in Missouri

A recent survey of Missouri retailers conducted by the University of Missouri and Syngenta Crop Protection gauged the perceived level of glyphosate-resistant waterhemp in soybeans throughout the state. The results represent over 30 percent of the total Missouri soybean growing area for 2007, or about 1.4 million acres.

Glyphosate-resistant waterhemp has been confirmed in six counties in Missouri and is perceived to occur on about four percent of the soybeans acres, or nearly 200,000 acres, in the state. The central part of the state is the current hot spot for resistant waterhemp, though pollen moves through wind currents, encouraging spread of the problem.

2006 Waterhemp Screening: How big of a problem is there?



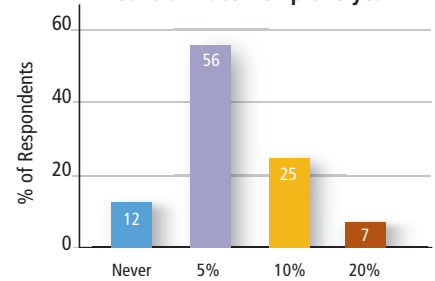
Seth Ricketts, Ricketts Farm Service, in Salisbury, Mo. says that glyphosate-resistant waterhemp is a minor problem in his area right now, but they are very concerned and aware of the potential for it to get much worse. "We're definitely seeing a decline in control of waterhemp with glyphosate compared to even a couple of years ago. That's why we make sure to rotate modes of action, utilize residual herbicides and apply the correct rate. To help get improved control in soybeans, I recommend Prefix™ herbicide."

Results of the survey show that there is still a heavy reliance on glyphosate throughout the state for weed control in soybeans. Other key problem weeds include giant ragweed, morningglory species, horseweed (marestalk) and lambsquarters.

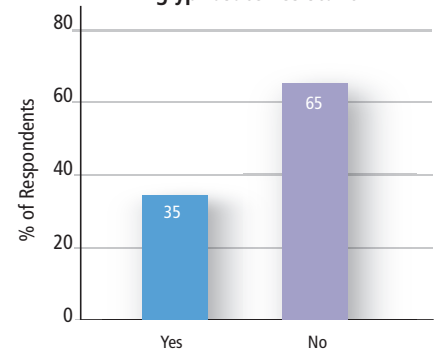
2007 Retailer Survey Highlights

The following information demonstrates actual perceptions observed through this retailer survey.

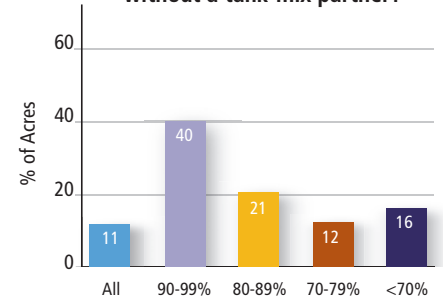
On what percent of the soybean acres you service did glyphosate fail to control waterhemp this year?



If glyphosate failed to control waterhemp in your soybean fields this year, do you think the waterhemp was glyphosate-resistant?



On what percent of the soybean acres you service is glyphosate used alone without a tank-mix partner?



Solutions

corn

Weed control plan	Program (rate/A)	Mode of Action		Notes
		Specific*	Program Total	
Two-pass GT system	Lumax® (2 qt.) pre followed by Lumax (1 qt.) plus Touchdown Total® (24 oz.) post	27, 15, 5 27, 15, 5 9	4	Where glyphosate-resistant weeds are suspected, use full labeled rates of pre-emergence, residual herbicides to manage waterhemp. These programs manage glyphosate-resistant, ALS-resistant and PPO-resistant weeds, including waterhemp, Palmer pigweed, lambsquarters, velvetleaf and ragweed.
	Lexar® (2.5 qt.) pre followed by Lexar (1 qt.) plus Touchdown Total (24 oz.) post	27, 15, 5 27, 15, 5 9	4	
	Lumax (2 qt.) pre followed by Northstar® (5 oz.) post	27, 15, 5 2, 4	5	
	Lexar (2.5 qt.) pre followed by Northstar (5 oz.) post	27, 15, 5 2, 4	5	
One-pass GT or conventional system	Lumax (2.5-3 qt.) pre	27, 15, 5	3	
	Lexar (3-3.5 qt.) pre	27, 15, 5	3	
One-pass GT system	Halex™ GT (3.6 pt.) plus AAtrex® post	27, 15, 9 5	4	
Two-pass conventional system	Lumax (1.5-2 qt.) pre followed by Lumax (1 qt.) post	27, 15, 5 27, 15, 5	3	
	Lexar (2-2.5 qt.) pre followed by Lexar (1 qt.) post	27, 15, 5 27, 15, 5	3	
	Lumax (2.5-3 qt.) pre followed by Northstar (5 oz.) post	27, 15, 5 2, 4	5	
	Lexar (3-3.5 qt.) pre followed by Northstar (5 oz.) post	27, 15, 5 2, 4	5	
	Bicep II Magnum® (1.6-2.1 qt.) pre followed by Callisto® (3 oz.) plus AAtrex post	5, 15 27 5	4	

soybeans

Weed control plan	Program (rate/A)	Mode of Action		Notes
		Specific*	Program Total	
GT system	Prefix™ (2-3 pt.) pre followed by Touchdown Total (24 oz.) post	14, 15 9	3	Where glyphosate-resistant weeds are suspected, use full labeled rates** of pre-emergence, residual herbicides to manage waterhemp. These programs are the best weed control options possible, but may not provide 100 percent control. For waterhemp resistant to PPO, ALS and glyphosate herbicides a pre-emergence herbicide is your best option. Consider cultivation to control resistant weeds.
	Boundary® 6.5EC (1.5-3 pt.) pre followed by Touchdown Total (24 oz.) plus Flexstar® (1-1.5 pt.) post	5, 15 9 14	4	

**Maximum rate allowed according to soil texture classification and percent organic matter content and geographic area; refer to the product label for additional information.

Note: Use Gramoxone Inteon® tankmixed with phenoxy (such as 2,4-D) or residual herbicides as a glyphosate alternative burndown in corn or soybeans. Always refer to the product label for specific recommendations, precautions, restrictions and geographic rate limitations.

*Numerical system to describe modes of action as designated by the Weed Science Society of America:

- | | | |
|---|---|---------------------------------------|
| 2 – ALS inhibition | 9 – EPSPS synthase inhibition (glyphosate) | 22 – Photosystem I electron diversion |
| 4 – Synthetic auxin | 14 – PPO inhibition | 27 – Inhibition of HPPD |
| 5 – Photosystem II (PSII), different binding behavior than groups 6 & 7 | 15 – Inhibition of a very long-chain fatty acid | |

For more information, contact the Syngenta Customer Center at

1-866-SYNGENTA (866-796-4368) or log on to resistancefighter.com.

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