

# Managing Resistance

## Weed Scientist Offers Tips To Control Glyphosate Resistance

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**A**g retailers, crop consultants, county agents and farmers came together to view the research underway at the University of Tennessee Weed Tour.

"We had roughly 40 different research projects on display, looking at weed control in cotton, corn and soybeans and trying to assess a lot of the newer herbicides that have come on the market," said Dr. Larry Steckel, University of Tennessee weed scientist. "The herbicides are

ing. Synchrony or Classic may help, but, quite frankly, we're going to have to live with some marestail in our fields this year, which is obviously not good. With \$15 soybeans, you don't want any competition."

Talks also centered on glyphosate resistant giant ragweed, which is becoming more of a management issue every year in corn, soybeans and cotton.

"A lot of these new bleaching herbicides like Calisto, Lottes and Impact do a very good job on it, as well as some of the newer products, like Status," Steckel said.



**Dr. Steckel said, "The biggest recommendation I'm making is to rotate the corn next year if, economically, it's not going to hurt you. We have some decent options."** Photo by John LaRose, Jr.

either brand new or new to Tennessee. We gave those in attendance a first hand feel for those as they work with their customers in the next few years with those products.

"We also gave them an update on where we are as far as glyphosate resistant weeds in the state," he continued. "We're up to three different species now – marestail, giant ragweed and palmer pigweed – and it appears that palmer pigweed is spreading just from the phone calls I'm getting and in the few fields I've walked so far this year."

More fields are showing palmer pigweed living through Roundup. Steckel offered some thoughts on what can be done to manage those weeds in the absence of Roundup.

"We looked at the older herbicides, but here we're also looking at a lot of the newer herbicides too and where they fit in that," he said. "The new Kixor product looks like it's going to be very good for marestail and not have the plant back restrictions that we see with Clarity, which has been our go-to product on marestail. The other thing is, for whatever reason this year, the manufacturers are running out of some of the herbicides. It's just amazing. First Rate is out and that's our go-to herbicide over the top for marestail in soybeans. There's a lot of concern over it right now, there's no real good follow up application that I know of, but there's a couple of things you can do that are better than noth-

"In soybeans we don't have near the options and it's a lot more expensive," he added. "A high rate of Roundup plus six-tenths of an ounce of First Rate, which we don't have, is a \$30 treatment. It's the only thing I've seen that will provide any kind of activity on glyphosate resistant giant ragweed."

"As far as Palmer Pigweed, right now we're in the very early stages of trying to figure out how to manage glyphosate resistant Palmer Pigweed in our crops," Steckel said. "The biggest recommendation I'm making is to rotate the corn next year if, economically, it's not going to hurt you. We have some decent options."

"In soybeans and cotton, we don't have very good options," he said. "A couple of things we're looking at is to put Reflex pre as close to planting as possible but Kixor, some things like that, may give us some residual up front that Palmer is not resistant to; and then it's good to go over the top with a Roundup and a Dual and getting residual Dual."

Residual products is the only thing there is to depend on in cotton.

"In soybeans, the Reflexes, the Blazers, the Cobras, those things look like they're going to have some utility for us on glyphosate resistant Palmer Pigweed over the top, but in cotton we don't have a lot of good options and it's a real concern," Steckel concluded. Δ