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GLYPHOSATE RESISTANT MARE'S TAIL

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If you've been following the glyphosate-resistant horseweed (or mare's tail) story, we probably have some here in Southeast Missouri. We haven't been able to formally prove it in the greenhouse, but, a lot of horseweed is acting just like the resistant horseweed in other states. When treated, glyphosate-resistant horseweed turns yellow and stops growing for a while, but eventually recovers. This is contrasted by our horseweed plots at the Delta Center where a quart-equivalent rate of glyphosate gives nearly perfect control.

"Resistance Management" is a bad term. "Management" means it's too late and you've already got problems. "Prevention" and not "Management" should be your goal. "Management" is a matter of spraying something else to control horseweed. "Prevention" is the use of herbicide rotation and integrated pest management.

Monsanto is promoting the use of Clarity in your cotton burndown applications and FirstRate or Amplify in your soybean treatments. Clarity is probably the product of choice for the best horseweed control. However, 2,4-D has also been used for the control of cutleaf evening primrose. "D" does an acceptable job on horseweed; but Clarity is better if the problem is severe. In soybeans (outside of cotton country), 2,4-D might regain the advantage due to preplant restrictions or Clarity.

To review the preplant restrictions, Clarity can be applied 3 weeks ahead of cotton and 4 weeks ahead of soybeans and 2,4-D should be applied 1 month ahead of cotton and 2 or 3 weeks ahead of soybeans (depending on the formulation and label).

In the Southeast Missouri Delta we can also take comfort that a disk will also give very good control. The fact that we still use tillage from time to time is probably why this problem hit Tennessee a couple of years before us. In fact, our resistant stuff may have blown in from Tennessee.

Horseweed is controlled poorly by Gramoxone. In trials last year we did find that a tank mix of Gramoxone plus a herbicide like Direx, Caparol, or Cotoran would provide control, as long as the treatment was sprayed twice.

Our number one no-till problem has traditionally been the failure to make that special March burndown application. Now that we have resistant mare's tail, guess what? Our number one no-till problem is failing to make a that special March burndown application.

Please do watch for horseweed problems. Sequential Gramoxone programs can be applied close to planting if you miss your March treatment. And, if worse comes to worse, put the disk in the field. Once you get resistance, there is no way to make the weeds switch back to non-resistant

types. An quart of preventative 2,4-D better than all than all the glyphosate in the world if you get resistant mare's tail.