



# Retailer Bulletin

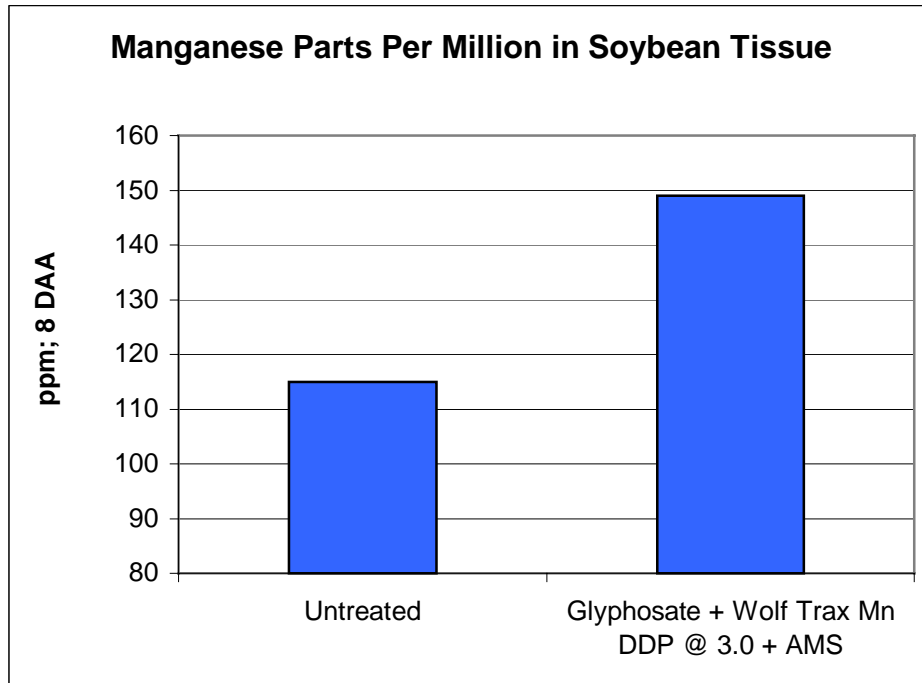
## Wolf Trax Manganese DDP Micronutrient: Avoid deficiency in your glyphosate-tolerant soybeans

In independent testing at Purdue University and Kansas State University, researchers compared glyphosate-tolerant soybeans to conventional soybeans. They found that adding manganese gave a significant boost to soybean yield in a glyphosate-tolerant soybean.

We now have a couple of years under our belt with respect to mixing Wolf Trax<sup>®</sup> Manganese DDP<sup>®</sup> with glyphosate as a tank mix. Here are some comments with respect to (a) how well the treatment works and (b) some guidelines on how to use the product with glyphosate.

### *Wolf Trax Manganese DDP provides excellent uptake and Dual Action*

In general, soybeans will give a profitable response to manganese in the parts of the field where manganese deficiency is present. The following chart shows that Wolf Trax Manganese DDP provides for excellent uptake of the manganese when the product is mixed and applied with glyphosate. Product was applied when weeds and crop were in the 4- to 6-leaf stage.



*Wolf Trax Manganese DDP provides 130% plant uptake compared to untreated.*

Wolf Trax<sup>™</sup>, DDP<sup>™</sup>, Dual Action<sup>™</sup> and Growing Forward<sup>™</sup> are trademarks of Wolf Trax Inc.

*(continued)*

In addition, Wolf Trax Manganese DDP Micronutrients offer the unique Dual Action™ formulation which provides both immediate uptake by the plant, and sustained feeding over time. This means that you can time a glyphosate application for optimum weed control, and be assured that the growing plants will get the nutritional manganese when it's needed.

***Some guidelines on how to get the most out of this treatment***

- Use a compatibility agent to reduce your risk of formulation changes. In many cases, compatibility agents are not required, however, because glyphosate formulations vary between products, and even from year to year for the same brands, we strongly recommend using a compatibility agent when mixing Manganese DDP with all glyphosate formulations.
- Follow recommended Order of Mixing and continue agitation while adding products to the water. The order of addition to the spray tank is as follows:
  - 1) Water (3/4 of final spray volume)
  - 2) Compatibility agent
  - 3) Ammonium sulphate
  - 4) Manganese DDP
  - 5) Glyphosate
  - 6) Water to obtain desired spray volume
- Apply the Wolf Trax Manganese DDP at 3 ounces per acre and use ammonium sulphate. Ammonium sulphate enhances uptake of both the glyphosate and the Wolf Trax Manganese DDP.
- Due to varying water quality and glyphosate formulations\*, Wolf Trax always recommends performing a jar test prior to your first load.
- Use 50 mesh or coarser screens on all nozzles.
- Use split applications when there is i) adverse weather that minimizes the competitiveness of the crop (e.g. dry weather) or ii) when you have 'hard-to-kill' weeds such as cocklebur. You can apply the manganese either before or after the glyphosate.
- Remember to follow proper sprayer maintenance procedures. Flushing the booms with the manufacturer's recommended water volume before storing equipment for the night ensures best performance of both the Manganese and the glyphosate.

*You and Wolf Trax...Growing Forward® together.*

*\* Glyphosate formulation changes may change the required order of mixing. If the jar test indicates a mixing problem, please call Wolf Trax at 204-237-9653 for more information.*

For more information on these studies, or the Wolf Trax DDP family of Innovative Micronutrients, please call 204-237-9653, or visit us at [www.wolftrax.com](http://www.wolftrax.com).