

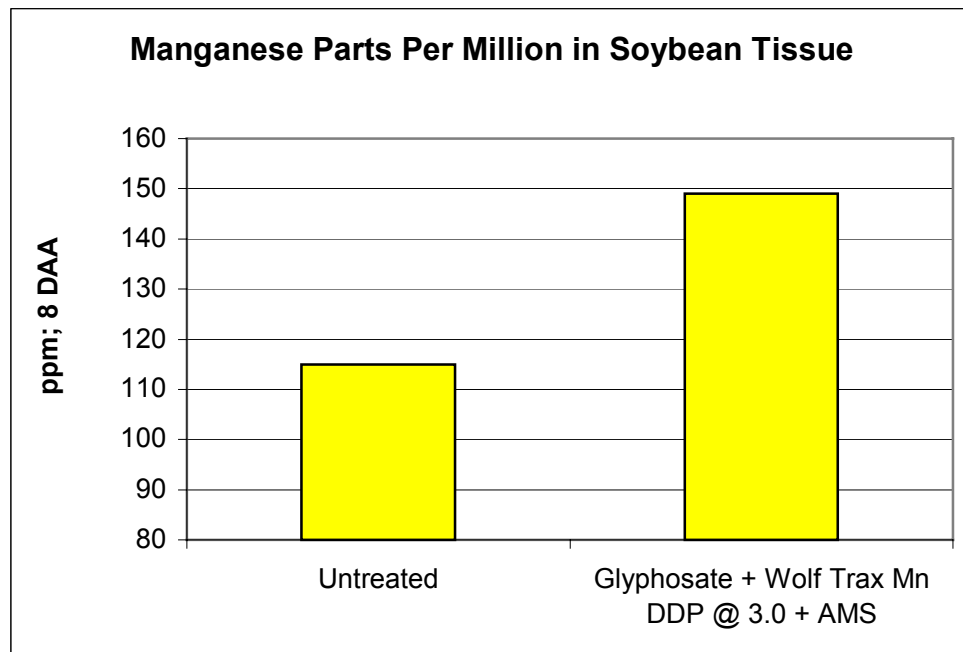


Wolf Trax Manganese DDP Micronutrient: A good choice for glyphosate-resistant soybeans

Manganese deficiencies have often been identified as the cause of lost yield in soybeans, and glyphosate-tolerant soybeans often benefit from the addition of manganese. However, it can be a challenge to find a micronutrient formulation that a) does a good job at feeding the plant, and b) mixes well with glyphosate. Results from trials conducted in 2003 and 2004 show that Wolf Trax™ Manganese DDP™ provides both benefits.

Wolf Trax Manganese DDP provides excellent uptake

In general, beans 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 DDP Micronutrients offer unique Dual Action

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.

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Wolf Trax Manganese DDP Micronutrient (continued)

Wolf Trax Manganese DDP, an Effective Tank Mix with Glyphosate

Results on broadleaf and grassy weeds used as indicator species show that Wolf Trax Manganese DDP can be used effectively in tank mixes with all of the major formulation classes of glyphosate.

The table below shows the weed control attained at 8 days after application, then at 14 and 28 days after application. With both grassy and broadleaf weeds, control at 28 DAA is the same with glyphosate alone as with glyphosate mixes containing up to 3 ounces of manganese. The addition of manganese had no adverse effect on weed control.

DAA	Broadleaf Weed Control			Grassy Weed Control		
	8	14	28	8	14	28
Untreated	0	0	0	0	0	0
Glyphosate	48	80	100	76	99	100
Glyphosate + Ammonium sulphate	58	85	100	75	100	100
Glyphosate + Mn DDP @ 3.0 + AMS	58	76	100	76	100	100

Weed control with Wolf Trax Manganese DDP in tank mixes with glyphosate.

Some additional advice

Two years of testing mixes of glyphosate with Wolf Trax Manganese DDP have painted a picture as to the best way to apply the product in conjunction with glyphosate. There are some ways to make sure that the producer's foliar weed control and his foliar applied micronutrient work well. Here are some important precautions and guidelines:

- Test your water first. Perform a compatibility test (jar test) prior to mixing a full tank load just to make sure that the manganese and the glyphosate are compatible in the grower's water source.
- 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.
- Use split applications when there is a) adverse weather that minimizes the competitiveness of the crop (e.g. dry weather) or b) when you have 'hard-to-kill' weeds such as cocklebur. You can apply the manganese either before or after the glyphosate.

You and Wolf Trax....Growing Forward™ together.

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.org.

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