



Look for Part 1 of this retailer bulletin series which shows the importance of spraying manganese early.

Wolf Trax Manganese DDP is an ideal solution to help your farmers maximize their yield and payback.

The patented Dual Action™ formulation provides both early availability and extended feeding, and allows your growers unmatched flexibility in spray timing.

How to make foliar manganese applications pay (Part 2 of 3)

Part One of this bulletin series looked at the advantages and payback of applying foliar manganese early versus late when manganese deficiencies are present.

Work conducted at Purdue University adds more information to the 'payback' picture. Dr. Jim Camberato looked at Wolf Trax Manganese DDP (Mn DDP) applied in a programmed approach. In that study, summarized in Table 1, Mn DDP was applied using three different approaches: (a) Mn DDP within a 10-34-0 band at 2 inches deeper than seed, (b) as a foliar application at V4 (a relatively early leaf stage) and (c) applied using BOTH the soil and the foliar applied.

Note that adding Mn DDP to the starter fertilizer increased yield by about 6 bu/acre. But the best yield was seen with the programmed approach - namely using a starter with some Mn DDP in it, plus a follow-up with the Mn DDP as a foliar. In that case, yields were 61.5 bu/acre – the highest in the trial, with a Return on Investment (ROI) of almost \$3 for the treatment.

The foliar application increased yield over check by only 4.2 bushels per acre, however, the relatively low cost of this application delivered a return on investment of over \$35 for every dollar spent on Manganese DDP.

The studies outlined in Parts 1 and 2 of this retailer bulletin series show that the biggest bang for your Manganese buck is by addressing your deficiency as early as possible, and by considering a programmed approach to application.

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(continued)

Table 1 Manganese applications – Wolf Trax Manganese DDP in a programmed approach

| Treatment | Grain yield (Bu/acre) | ROI¹ |
|------------------------------|------------------------------|------------------------|
| (1) no starter or Mn | 52.2 | |
| (2) starter only | 52.7 | \$0.22 |
| (3) starter +Mn ² | 58.0 | \$1.93 |
| (4) starter +Mn +foliar Mn | 61.5 | \$2.96 |
| (5) foliar Mn | 56.4 | \$37.10 |

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For more information on the Wolf Trax DDP family of Innovative Micronutrients, please call 204-237-9653, or visit us at www.wolftrax.com.

¹ ROI estimates are based on estimated costs at the farmgate. ROI calculations do not include costs of application (fuel, equipment, or cost of glyphosate).

² Manganese rate in starter fertilizer was 8 oz/acre. Manganese rate in foliar application was 3 oz/acre.