



Retailer Bulletin

Early season nutrition now possible with Wolf Trax DDP Micronutrient Technology

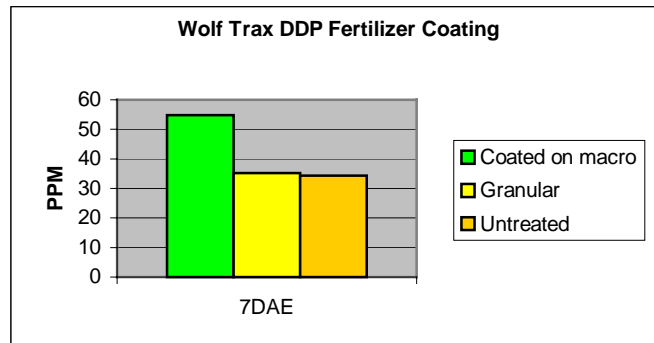
Soil scientists and extension personnel have stressed the importance of feeding the crop *early* with micronutrients. Wolf Trax[®] DDP micronutrients are formulated so that they can accomplish the goal of early feeding of crops *either* as a coating on fertilizer or seed, or as a foliar application.

Early feeding of crops through fertilizer coatings

DDP[®] Micronutrients applied as a fertilizer coating gives your customer a good option for correcting deficiencies in crops early. The study below (Chart 1) was conducted in soils with pH levels above pH 7.6 on crops sown into cold soils. Normally these conditions would make micronutrient uptake difficult. As you can see, this is the case with the granular check treatment, where the crop clearly is not getting any of the benefit of the granular zinc.

On the other hand, the use of Wolf Trax Zinc DDP as a coating on the macro fertilizer is providing nutrition to the crop in the days immediately after emergence. This benefit lasts for about five weeks after seeding.

Chart 1. Early season nutrition of corn with Wolf Trax Zinc DDP coated on macro fertilizer



Early feeding of crops through Seed Treatment

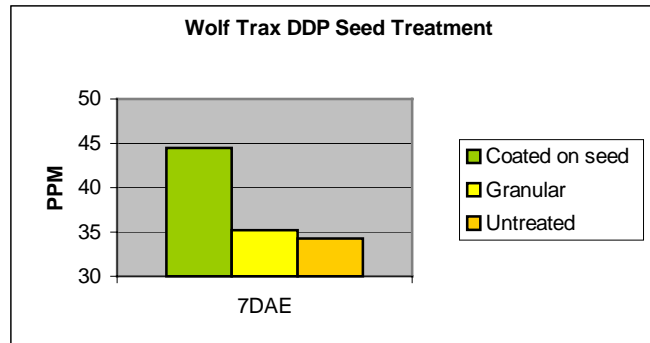
Another opportunity for innovative retailers is emerging. DDP Micronutrients applied as a Seed Treatment provides nutrition to the seedling earlier than ever possible before. While a “chunk” of soil-applied granular micronutrient is generally not found until about 35 days after seeding, Wolf Trax Micronutrient DDP applied to the seed is available to the plant the minute the radicle begins to emerge.

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The graph below shows the enhanced uptake from Wolf Trax DDP Micronutrients applied to the seed, compared to a typical granular micronutrient.

Chart 2. Early season nutrition of corn with Wolf Trax Zinc DDP applied to the seed



Early feeding of crops through foliar applications

Wolf Trax conducted a study comparing early applications of Wolf Trax Manganese DDP with manganese sulphate foliar applied to wheat. The study showed that even when the Wolf Trax Manganese DDP was applied at BBCH 12 (the 2-leaf stage of wheat), the DDP was able to supply manganese to the crop far more efficiently than manganese sulphate (Table 1).

Table 1. Early foliar applications of Wolf Trax Manganese DDP on wheat (ppm Mn in tissue)

Treatment	BBCH 12	BBCH 15	BBCH 22	BBCH 33
Untreated Check	79.6	52.1	47.2	38.4
Wolf Trax Mn DDP	469.5	166.0	66.9	38.2
Manganese Sulphate	438.3	104.9	63.9	36.3

By addressing deficiencies early, your customer's crop will have a greater chance of reaching its true potential, resulting in more satisfied customers, and greater success for your business.

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.com.