

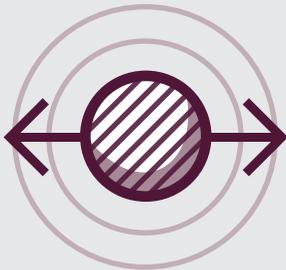


# BENEFITS OF WOLF TRAX<sup>®</sup> MANGANESE & IRON DDP<sup>®</sup> ON SOYBEANS

WOLF TRAX<sup>®</sup> DDP<sup>®</sup> micronutrients provide an excellent method of applying micronutrients where soybean roots can access them in the right amount for required yields. Specifically designed to simplify nutrient management and boost crop performance, WOLF TRAX micronutrients allow plants to consistently access the right rate of nutrients throughout the growth cycle.

## SIMPLIFY NUTRIENT MANAGEMENT WITH WOLF TRAX

WOLF TRAX DDP micronutrients are uniquely designed to coat dry fertilizer blends and deliver highly-available nutrition through better distribution in the field than traditional granular micronutrients. This is achieved with patented EvenCoat<sup>®</sup> Technology.



With EvenCoat Technology, WOLF TRAX products thoroughly coat each and every granule. The result is an even distribution across the field and delivery of the right amount of micronutrients needed in close proximity to growing roots.

## IMPORTANCE OF MANGANESE

Manganese is needed by crops throughout the growing season for essential functions in the plant like photosynthesis. Manganese acts as an activator for enzymes in growth processes and supports the conversion of nitrate (a form of nitrogen) that can be readily utilized by the crop. In addition, manganese assists iron in chlorophyll formation.

### BENEFITS

- Assists with respiration and nitrogen fixation.
- Responsible for chlorophyll production and photosynthesis.

### WHEN TO UTILIZE

- Sandy, coarse soils or soils with a high pH ( $> 6.8$ ).
- Cool, wet soil conditions.
- Soils with high organic matter can reduce manganese availability due to interactions with organic compounds.

### IDENTIFYING DEFICIENCY

- Interveinal chlorosis, or yellowing of the leaves on new growth. In severe cases, death of leaf tissue may occur.
- Stunted plant growth.



## IMPORTANCE OF IRON

Iron is an essential nutrient to crop production as it plays a vital role in crop growth, enzyme function and transporting oxygen throughout the roots, leaves and other parts of the crop. Without enough iron, crops will not receive the oxygen they need and without this oxygen, sufficient chlorophyll is not produced. As chlorophyll is the key factor in the absorption of light to provide energy for photosynthesis, insufficient amounts are detrimental to a crop's overall health and growth.

### BENEFITS

- Facilitates nodule formation and function.
- Transports oxygen throughout the roots, leaves and other parts of the crop.



### WHEN TO UTILIZE

- Sandy, coarse soils or soils with a high pH ( $> 6.8$ ) or with cool, wet conditions.
- Low organic matter can reduce available iron due to decreased mineralization.
- High phosphorus, salinity and calcium carbonate levels.

### IDENTIFYING DEFICIENCY

- Interveinal chlorosis, or yellowing of the leaves on new growth. In severe cases, death of leaf tissue may occur.
- Stunted plant growth.

## GET A BALANCED NUTRITION PLAN WITH WOLF TRAX

With WOLF TRAX® DDP® micronutrients, you can have the confidence your soybeans are receiving the right amount of manganese and iron needed with a uniform distribution across your field. This provides your crops with a balanced nutrition plan to maximize your yield and decrease your risk of deficiency and hidden hunger.

**Application timing:** Early in the season.

**Set crops up for success with a balanced nutrition plan.**

Visit [WOLFTRAX.com](https://www.wolftrax.com) to get started.