

# Manganese Plus®

Low Rates  
High Response



# Manganese Plus®

## SOIL/FOLIAR NUTRIENT

### GUARANTEED ANALYSIS 0-0-0

|                                     |        |
|-------------------------------------|--------|
| Combined Sulfur(S) .....            | 5.82%  |
| 5.82% Combined Sulfur (S)           |        |
| Soluble Manganese (Mn) .....        | 10.00% |
| 10.00% Water Soluble Manganese (Mn) |        |

Derived from Manganese Sulfate  
Weight per gallon: 11.10 lb at 68° F  
Grams per liter: 1332 g at 20° C

### GENERAL INFORMATION:

**Manganese Plus** is designed as a source of manganese to treat or prevent deficiencies for all field, row, vegetable, fruit, tree, vine, ornamental and turf crops.

### APPLICATION RATE:

**Soil:** 24 to 32 Oz/acre.

**Foliar:** 16 Oz/acre. Apply Weekly as needed.

**Drip Irrigation:** 0.10 Oz/1,000 sq ft weekly.

**Injection (1:100):** 1 Oz/gallon weekly (78 ppm).

**Pump-Up Sprayer:** 2 Oz/gallon of water. Spray light mist over foliage from 3 feet away. Apply weekly as needed.

### COMPATIBILITY:

This product is compatible with most commonly used pesticides. However, it is advisable to always check for compatibility.

**NOTE:** Always follow label directions and precautionary statements on pesticide label.

# Manganese Plus®

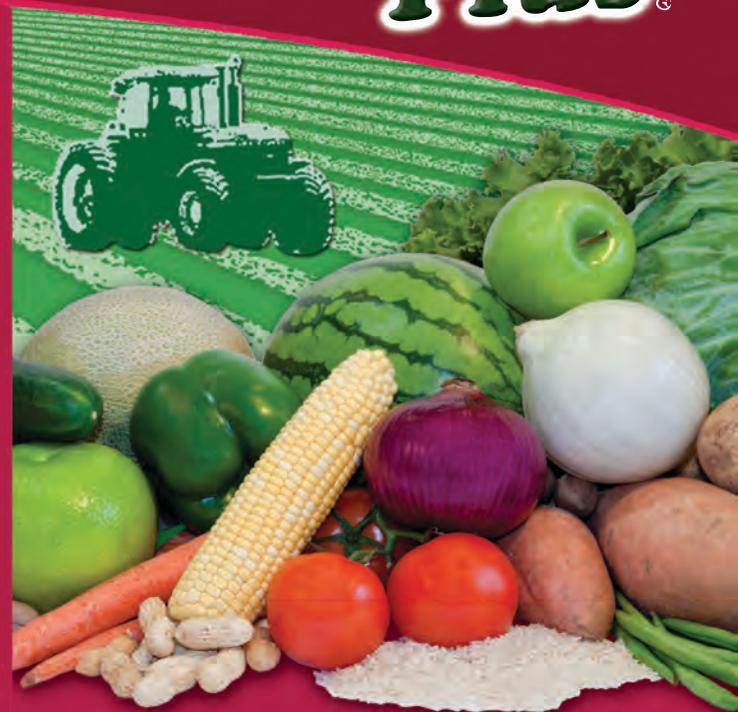
## FUNCTION OF MANGANESE

Manganese functions in cellular respiration, synthesis of chlorophyll, redox reactions and has a direct effect on germination as well as maturation.

## MANGANESE & SOYBEANS

A consistent phenomenon in production of glyphosate resistant soybeans has been seedling chlorosis that tends to surface in some areas of some fields. This is especially prevalent in fields with little or no rotation with other crops. At **DeltAg**, for many years, with **Manganese Plus** at 16 to 32 ounces per acre, we have treated this condition as a manganese deficiency that we felt was somehow caused by the plants inability to metabolize manganese. We often see this even when manganese soil levels are high. Today, with some really great University Research, we know this to be the case.

Research has shown that, while the addition of manganese to the glyphosate does not tend to be beneficial, a treatment AFTER the symptoms occur, can be very beneficial and has been shown to increase yields by as much as 15%. Also, we are only treating the effected areas instead of entire crops.



## BioTransport System®



\*For More Information Please Contact **DeltAg**.

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# Manganese Plus<sup>®</sup>



*Chemistry... Not Fertilizer!*

## Delivers Nutrients Faster



*Manganese Plus* utilizes *DeltAg's* proprietary *BioTransport System*, which improves absorption and translocation of materials throughout the plant while acting as an aid to improving nutrient efficiency. The "Plus" indicates the presence of *DeltAg's BioTransport System*. *Manganese Plus* has the ability to perform adequately at very low application rates as compared to other manganese sources.

*BioTransport System*

Healthy Manganese Levels  
Aid Plants to Maintain Their Metabolism  
and Keeps the Maturity Process on Track.

### **MANGANESE PLUS COMMON APPLICATIONS**

Seedling Chlorosis

Vegetable Crops

Citrus Orchards

Mast Crops

Glyphosate Recovery

### **MANGANESE PLUS VERSATILITY**

- In-furrow with Seed
- Seedling Foliar
- Side-Dress
- Injection
- Drip
- Fertigation
- Impregnation

### **More About Manganese Plus:**

*Manganese Plus* is used as a soil or foliar manganese source where manganese deficiencies occur or where additional manganese is desired. Always conduct a compatibility test before any large scale mixing.

Comparison of *Manganese Plus* to other sources of manganese has proven the superior uptake of manganese into the plant. A typical use rate for soil applications is to apply 24 to 32 ounces in side-dress liquid fertilizers. Broadcast rates are not generally recommended. Foliar applications at 16 to 32 ounces have proven to be very effective.

*Low Rate Crop Response*



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