

# Hydri-Gro Vigor 802



## PRODUCT DESCRIPTION

**Hydri-Gro Vigor 802** is a specially formulated, proprietary liquid foliar fertilizer that combines the benefits of nitrogen and potassium with vital micronutrients – zinc, manganese, iron and boron. Hydri-Gro Vigor 802 delivers these macro and micronutrients in an effective, readily available form to increase plant health, growth, and yields when nutrient demand are at their highest.



## GUARANTEED ANALYSIS (wt%)

Total Nitrogen (N).....	8.0
4.6% Ammoniacial Nitrogen	
3.4 % Urea Nitrogen	
Soluble Potash (K <sub>2</sub> O).....	2.0
Sulfur (S).....	4.5
4.5% Combined sulfur	
Boron (B).....	0.25
Iron (Fe).....	1.0
Manganese (Mn).....	2.0
Zinc (Zn).....	3.0
Derived from: ammonia, urea, potassium thiosulfate, disodium octaborate zinc sulfate, manganese sulfate, and ferrous sulfate.	

## TYPICAL PROPERTIES

**Appearance:** clear, dark red liquid  
**Odor:** mild ammonia  
**pH:** 8.0  
**Specific gravity:** 1.31  
**Weight:** 10.91 pounds/gallon  
**Salt out:** 3°F

## KEY FEATURES

- Efficiently absorbed non-EDTA chelated metals.
- Compatible with most foliar pesticides, insecticides and herbicides.
- Humectant and surfactant properties for moisture control and improved leaf contact.
- Foliar nutrients help defend against environmental stresses.

# Hydri-Gro Vigor 802

## CORN FOLIAR TRIAL RESULTS (COMPARING COMMON FOLIAR USE PRODUCTS IN CENTRAL ILLINOIS)

Yield Rank	Corn Foliar Treatment at V5	Bu/Acre	Bu/Acre Difference	Net \$ Return/A	ROI Rank
1	Hydrite Vigor 802 (1qt)	232	10	\$ 34.00	1
2	Product B	230	8	\$ 25.73	2
3	Product C	227	5	\$ 12.98	3
4	Product D	227	5	\$ 6.75	4
5	Product E	224	2	\$ 2.55	5
6	Check	222	0		-

Hydrite Vigor 802 \$3.50/ac; Product B \$4.27/ac; Product C \$5.77/ac; Product D \$12.00/ac; Product E \$4.95/ac . \*Analysis does not include cost of application (bu/ac difference from Check X \$3.75/bu corn - cost of treatment = Net \$ Return/ac)

## PLANT HEALTH BENEFITS

**Zinc** is required by plants for many enzymatic activities and is involved in the biosynthesis of chlorophyll.

**Manganese** is vital for photosynthesis reactions, enzyme activation, and root growth.

**Iron** is a key element of enzymes and molecules that are involved in the redox reactions of respiration and photosynthesis.

**Boron** is essential for the transportation of photosynthetic sugars to the rapidly developing meristematic tissues. Evidence further suggests that boron plays significant roles in various cell functions and plant hormone response.

**Nitrogen** is required in the greatest amounts. It is a major constituent of many plant components including amino acids, proteins, and nucleic acids.

**Potassium** is essential to ATP synthesis, required for the production and activation of specific photosynthetic enzymes, and important for many crop quality characteristics.

**Sulfur** is contained in the amino acids cysteine, cystine, and methionine. These are essential components of proteins.

## STORAGE AND HANDLING

This product should be stored at ambient temperatures. Polyethylene, polypropylene, or 316L stainless steel are acceptable materials of construction for bulk storage. Galvanized steel, aluminum, mild steel, copper, and copper-based alloys (e.g. bronze or brass) should not be used in contact with this material.

## PRECAUTIONS

Verify chemical mixture compatibility using jar test prior to any application.

Product safety information and handling precautions are contained on the product label and Safety Data Sheet (SDS).