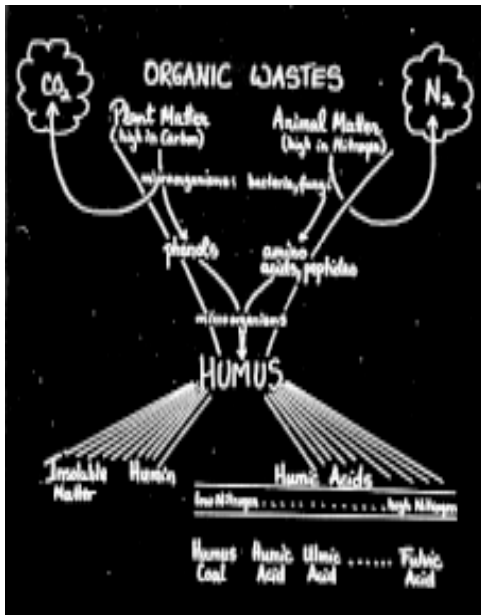


## Humic Acid Enhancer (HAE) .....



.... Addresses the components of humus formation that are missing from an inorganic fertility program.

Proven uses of HAE:

- Anti-crustant
- Nitrate reducer
- Stubble decomposition
- Aid in reduced run-off

# HUMIC ACID ENHANCER™

**FIRST CHOICE**®

For more information contact:

Western Farm Service, Inc.  
Post Office Box 47  
Jerome, Idaho 83338  
Ph. 208/324-3344

Email: [info@biosci.com](mailto:info@biosci.com)  
[www.biosci.com](http://www.biosci.com)

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First Choice is a trademark of Western Farm Service, Inc.  
Ver. 1.899

**For those growers who use humic acid, Western Farm Service, Inc's *First Choice Humic Acid Enhancer* is a organic catalyst that significantly enhances the effectiveness of humic, Fulvic and Olmic acids and fertilizer. Unlike the use of humic acids alone, *Humic Acid Enhancer* provides for greater productivity from your humic acid and fertility program.**

#### INTRODUCTION

*First Choice Humic Acid Enhancer* (HAE) is a proprietary biotechnical system that addresses plant growth and nutrition by building the soil.

Plant growth and nutrition start with the formation of humus. Humus is the unstable organic fraction of soil containing most of the biological compounds important to plant nutrition. As a break down constituent of Humus, Humic and Fulvic Acids are the most biochemically active and important group of soil organic materials. Soil humus holds micro-nutrient metal ions and essential macro-nutrients. Humus also affects the physical properties of soil like structure, flocculation, aggregation and clay expandability. Humus also assists in determining the CEC, and buffering capacity of soil.

While humus is being formed it is also being decomposed. Decomposing humus produces additional numbers of microorganisms that are involved in consuming carbon, digesting protein (nitrication), producing amino acids, and finally dieing, which adds their bodies to the process of making more humus.

#### BALANCE

The natural formation of humic/Fulvic substances in soil is a complex biochemical reaction involving many factors. Of these factors, HAE addresses the components of humus production that are not generally available in commercial sources of humic/Fulvic acid, on the market today. In addition to a quality humic, fulvic and olmic acids content, HAE also contains the following synergistic components:

- ✧ Biological catalysts
- ✧ Mineral micro nutrients
- ✧ Enzymes
- ✧ Partially digested organic matter
- ✧ Beneficial soil microbes
- ✧ Fertilizer value
- ✧ Protein and Amino Acids
- ✧ Algae

These components combine to ***Enhance*** your humic acid application by providing the *bal*

*ance* that is missing in most humic acid and inorganic fertility programs.

#### GENERAL USE GUIDELINES

Compatibilities- HAE is compatible with all forms of humic and fulvic acid and most forms of fertilizer. Maintenance of a pH above a 6.0 will ensure humic acid solubility, for this reason do not mix HAE with Urea Sulfuric, Sulfuric or Phosphoric acids. Do not mix HAE with Aqua Ammonia (or NH<sub>3</sub>), or inject the two products within close proximity of each other. Do not apply HAE with, or directly before soil fumigation. No other known incompatibilities. Always jar test newly attempted tank mix combinations.

Rates and timings- HAE may be applied in combination with commercially available brands of humic/fulvic acid, and most fertilizers. Pre-plant and At-planting applications generally give the best results. This product may be applied through irrigations systems. Apply 30 gallons per acre per season in a minimum of two applications. The first application (Primary inoculant), of 20 gallons should be applied prior to, or at planting. Subsequent (maintenance) applications of 5-10 gallons can be made through the most convenient application means (water run, or side dress).