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**DeltAg Product Brief**

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## **Higher Yields Start with Healthy Soil**

### **Soil is Our Greatest Asset**

**Life in the Soil:** In agriculture we have known for over 100 years that our soils are *alive* with what we know as *microflora*. This is all of the micro-organisms that **MUST** be present for our soils to function and plants to grow. Bacteria, algae, actinomycetes, mycorrhizae and yes, even nematodes, are not only present, but necessary for our soils to be healthy and productive. Certain strains of micro-organisms are required in order for specific nutrients to convert to forms that your crops can use. For example, bacterial activity is a primary source of oxygen in your soil. Without oxygen, your soils become compacted, tight, hard and dry.

You may ask how these different micro-organisms help create healthy soils?

**Bacteria:** Generate oxygen in our soils

**Algae:** Food for bacteria

**Mold:** Aids in residue composting

**Fungi:** Generate enzymes for nutrient conversion

**Yeast:** Breaks down cellulose (fiber)

**Mycorrhizae:** Attach to roots & aid in nutrient and water uptake

**Actinomycetes:** Directly attack and compost crop residue



**DeltAg Soil Solution** is designed to aid microbial activity in our soils and also to introduce specific enzymes to breakdown crop residue. In other words, we are “feeding” your microbes. Many products have come and gone that attempt to apply more bacteria to your soils. **Soil Solution** feeds the existing micro-organisms that have already adapted to the environment of a cultivated soil and have survived the many practices (fertilizing, chemicals, plowing) that hurt their natural processes. To improve microbial activity is to improve the overall health of soils, resulting in healthier crops. More microbial activity means more oxygen, more nutrient availability, more water holding capacity, and better yields.

**Soil Solution** has been formulated and marketed by **DeltAg** since 1988 with many years of proven success in the field. The standard rate when incorporated is 24 ounces per acre. In no-till situations, 32 ounces is preferred and rain incorporation is necessary for activation to be successful. Fall application is preferred over spring simply because the results are a function of time. “It takes time.” **DeltAg** field tests have shown as much as a 35% increase in stubble digestion over 4 months including winter months. Specific site soil tests with no additional phosphate or potash have shown increased levels of P and K over several annual applications of **Soil Solution**. Thus, assuming our soils have ample residual nutrients, over time and with enhanced microbial activity, we can reduce the amount of purchased P & K required. However, to reduce P & K without a soil test could hurt our yields and set our soils back for years to come.

**Bottom Line - Apply Soil Solution annually... then soil test... soil test... soil test!**

*“True wealth comes from the soil”*

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