Since 1976
DeltAg
Improving Plant Performance
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***DeltAg* Product Brief**
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Soil… 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 feed these 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 enhance 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"

Establish Healthier Winter Wheat

Germination: We all know the best wheat crop has to have a healthy, vigorous start, good tillering and be well established before winter cold hits. ***DeltAg*** has a dry powdered formulation designed for hopper box treatment of seed in the field at planting. ***Seed Coat***, applied at 3-4 ounces per acre, contains the nutrients required to enhance the microbial activity in the rizosphere surrounding the seed as it is laid in the soil at planting. The healthy activity of microbes immediately adjacent to the seed is critical for good emergence. Research has shown ***Seed Coat*** to improve crop stand by 10% to 20% in row crop agriculture. **Root Development:** The physiology of plants is such that a better start with more vigor lends itself to proper root development and a continued advantage in further crop development. All of this is due to a healthier environment surrounding the seed itself. **Simply sprinkle - stir - plant!**

Seed Coat from *DeltAg*

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