

Biological Farming



Our 30+ Year Focus:

Getting “down to earth” with farmers has been our mission for 30+ years. AgriEnergy Resources is committed to maximizing the value of your soil by focusing on solid soil science, farmer approved products, practical solutions, and field tested knowledge.

Building On Your Foundation:

Our agronomy and sales representatives are experts in achieving low cost, high-yield farming... we'll dig deeper into your soils and develop a strong fertility program that meets your specific needs on any crop, on any soil, anywhere.

Consider us your one-stop shop with a complete product line including, fertilizers, biostimulants, inoculants, nitrogen fixers, phosphate solubilizers, foliar feed, and spoon fed added nutrients. Our customized products contain as many as 12 ingredients, eliminating the hassle of blending ingredients on your own farm. We're all about adding biology to your soil or enhancing the beneficial biology that may already be at work on your farm.

Profitable Soil Solutions:

NOW is the perfect time to make some long-term fertility investments on your farm! The future is here. What would you target first on your farm?

- Recycling nutrients
- Increasing carbon
- Weather-proofing soils
- Under-cover cropping
- Enhancing soil biology
- Reducing compaction
- Decreasing rates of applied nitrogen and phosphorus



AgriEnergy Resources®

... the only resource you need for gaining more control over your farm's profitability through biological farming. Call today!

815.872.1190





More than just dirt, soil is a living system designed to recycle nutrients and sustain life. A cup of undisturbed native soil is likely to contain an enormous number of living organisms, shown in the chart to the right.

The Living Soil		
200 billion	Bacteria	
20 million	Protozoa	
100,000 meters of	Fungi	
100,000	Nematodes	
50,000	Arthropods	

Obviously, most of the living organisms in soil are not visible to the naked eye. These tiny microbes constantly break down organic material into forms that roots can identify, absorb, and ultimately use to grow and sustain a healthy plant.

The Foundation of Soil:

The presence of microbes ensures that nutrients are made available to plants at a steady rate. Actively growing plants require more nutrients and the microbes go to work breaking down organic materials into forms readily absorbed by the plant.

Biological farmers understand the value of root exudates. When we “feed the soil” or “feed the plant”, we're actually feeding the microbes, and the most effective way to do that is to increase the amount of soluble carbon from root exudates.

Organic Matter - a necessity:

Increasing organic matter is a 3-pronged approach: residue management, wise tillage, and feeding the crop. Turning field residue into humus is a great way to turn a potential problem into substantial value for the soil.

Ask your AgriEnergy Resources rep how to effectively accelerate the decomposition of field residue in combination with wise tillage and crop feeding to substantially boost your bottom line.

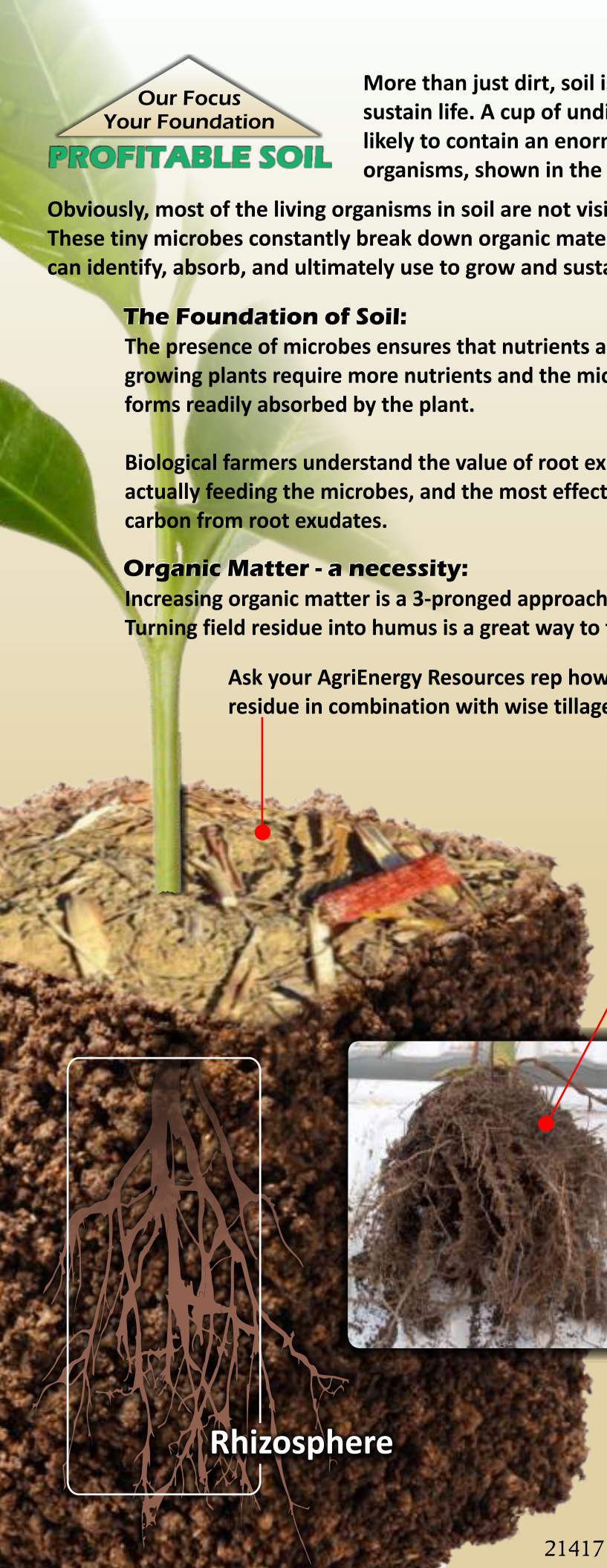
The Rhizosphere:

Of special interest to the biological farmer is the narrow region where the plant's roots come into contact with the soil and it's microorganisms.

Plants grown biologically have an active rhizosphere resulting in a larger root mass. And, more soil will attach to the roots. Microbial secretions act as a “glue”, binding soil particles and organic matter together.

In a healthy rhizosphere, the roots and the surrounding soil work together as a team to achieve the following:

- Bacteria, fungi and other organisms cause aggregation, tilth, and a coffee ground like soil structure
- Aggregation increases pore space, making more room for air and water
- Increased activity at the root/soil interface causes more root exudation, which accelerates the biology and plant performance
- Increased biology results in more grazers (predator organisms) feeding on the abundant bacteria and fungi, which in turn expels nitrogen to feed the crop



Rhizosphere



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