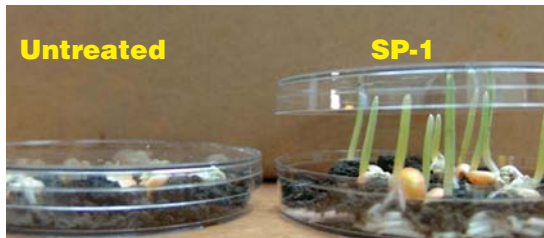


was also planted at the same time. After five days at 68°, corn had sprouted in the **SP-1** dish (photo below), but had barely begun sprouting in the untreated control.

For an all-dry biological seed treatment, use our popular **Myco Seed Treat** which surrounds the seed with beneficial bacteria and fungi.



10. Cut grain drying costs. Healthier, faster-growing crops give our growers earlier maturity and crop dry-down. You see mature corn ears on green stalks. This opens a longer harvest window; saves corn drying costs. Our fruit and vegetable



growers also benefit from rapid maturity to reach early markets, higher sugar content for appealing taste, and longer storage life.

11. Gain more yield consistency.

Your combine monitor probably shows wide yield variations across soil types in each field. Studies by the National Soil Tilth Lab, as well as our research and experience of our farmer clients, show that enhanced soil biology *reduces yield variation within fields*. We normally see yields in poorly drained or low fertility spots gradually rise toward high-quality soils. This lifts your field-wide averages.

12. Cash in on improved livestock performance. Our livestock producers benefit from higher nutrient density in grain and forage. They report higher palatability, faster beef gains on pasture, greater milk production and improved herd health!



You can gain immediate access to our people, products and principles!

At AgriEnergy Resources, we've emphasized service, research and education in Renewable Farming for more than 20 years!

You'll have personal connections with our seasoned agronomists and a diverse group of regional dealer representatives. These team members have extensive experience with most of the soils, crops and farming practices in America. They're eager to help you design cost-effective, environmentally friendly fertility programs which fit your equipment, crops and budget. *We serve both organic and non-organic producers.*

We understand how important it is to build biologically sound programs which help restrain soaring costs of conventional fertilizers, herbicides and insecticides. We have the evidence and enthusiasm to show you why *building biological life in your soil* helps you fight rising costs. Call or e-mail us!

AgriEnergy Resources

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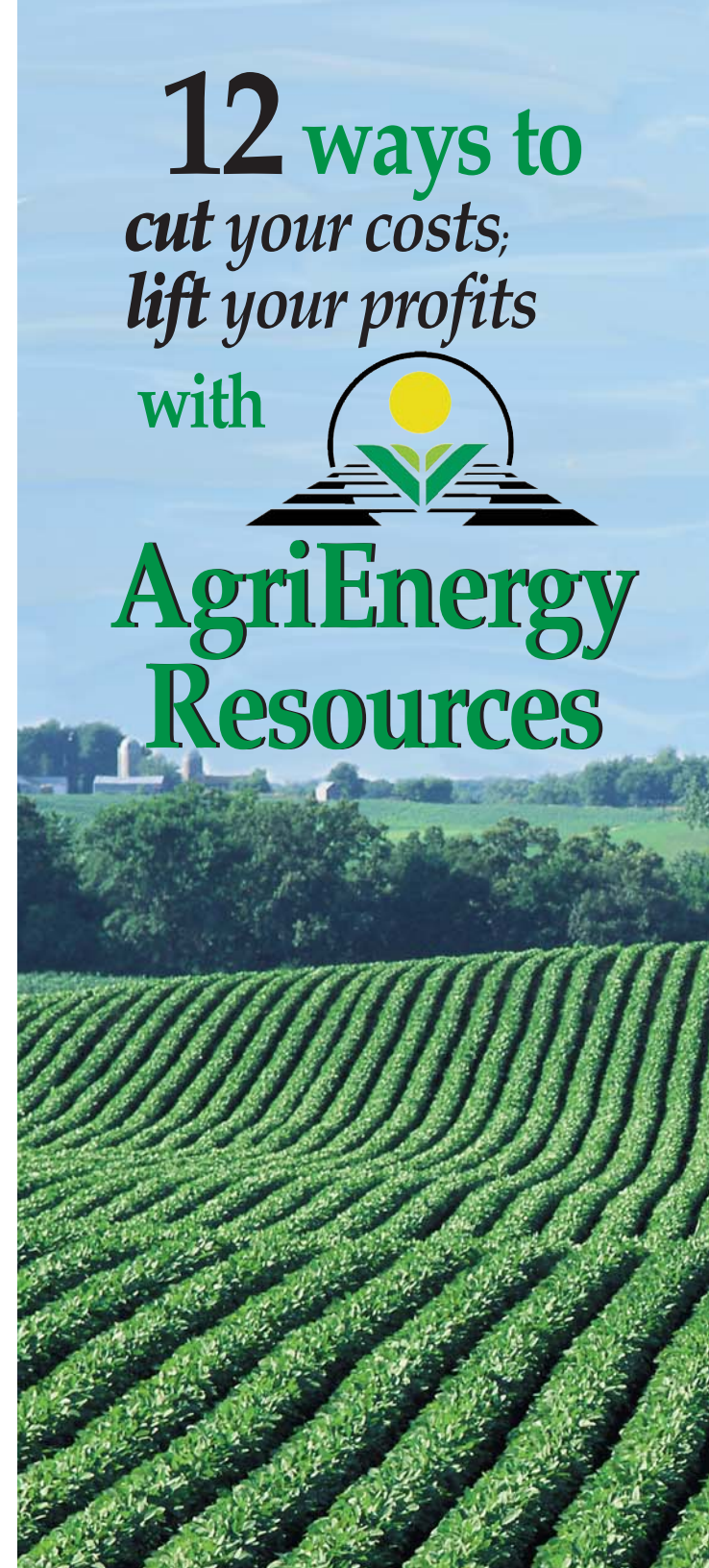
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12 ways to cut your costs; lift your profits

with 

AgriEnergy Resources



AgriEnergy Resources brings you more than 20 years of experience helping farmers enhance soil biological life and productivity. We can help you with any crop, anywhere, whether you farm conventionally or organically. Here are a dozen ways our clients control costs and improve profits:

1. Cut nitrogen fertilizer costs.

Conventional fertilizer programs normally call for 1.2 pounds of added nitrogen to produce a bushel of corn. Our growers who've built up soil biological life normally raise a bushel of corn with about a *half-pound* of purchased nitrogen. How? By recycling more nutrients from crop residue... naturally! This table shows how much purchased nitrogen you can save when raising 200-bu. corn:

Fertility system	Pounds of purchased nitrogen needed	
	Corn after corn	Corn after soybeans
Conventional fertility	246	190
Biological fertility	116	74
You save this many pounds:	130	116

2. Steadily build soil organic matter.

You can increase yield potential by capturing carbon in crop residue instead of losing it to oxidation. After harvest, spray our residue-digesting biological product, **Residue**. Tilling or aerating is suggested. Incorporating residue is ideal.



In the photo at left, most of last year's cornstalks have been digested in **Residue**-treated rows. By inoculating

residue, vibrant microbial life builds up, converting cellulose to ultimate fertility – *humus*. As humus builds, nutrients like nitrogen, phosphorus and sulfur build up in your soil.

3. Restrain pesticide costs. Dead, anaerobic soils and sick crops are most susceptible to weeds and insects. As a wide range of beneficial microbes multiply in your soil, crops gain more natural vigor to outgrow insects and disease.

4. Get more consistent yield averages through tough seasons.

The biggest benefits of our biological approach versus conventional fertility often show up under stress. *Rich soil biological life helps buffer drought or excess moisture.* The photo of Utah land (below) shows a dramatic example of soil-building energy. This farmer built vigorous biological life in his soils for several years. His fields are *black* among snow-covered fields because late-fall microbial growth and residue digestion *generated enough warmth to melt a light snow on his farm!*



5. Save fuel and time with enhanced soil tilth.

As you increase soil life, tilth improves. A common observation from our farmers: It becomes easier to get a great seedbed, and tillage implements pull easier. A loose surface mulch over a tilthy rootbed conserves moisture and allows roots to punch deep for subsoil moisture and nutrients. As our customers rent or buy new farms, they appreciate how their "bio" soils have improved!

6. Absorb rainfall more readily.

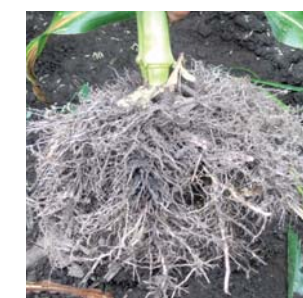
Biologically alive soil develops a "coffee grounds" structure and higher humus levels which help sponge up rain. Water-stable aggregates in such soils also resist wind erosion because abundant polysachharides and glomalin left by soil organisms stick soil particles into a "crumb structure."

7. Raise more bushels per inch of moisture.

Biologically healthy soils with higher humus levels hold more moisture, which can buy time until the next rain. It can also mean savings on irrigation water.

8. Maximize nutrient uptake.

In soils with abundant, beneficial microbes, you'll see a dense web of fine roots with soil clinging to them. This "rhizosphere" of soil life surrounding root hairs rapidly converts soil nutrients into soluble forms which are quickly absorbed by roots. With a higher



level of life in the soil, you can usually reduce application rates of nitrogen and phosphorus without reducing yield. A less dense soil structure also promotes gas exchange with the atmosphere as bacteria take up oxygen and exude CO₂.

National Soil Tilth Lab data shows that up to 40% of corn and soybean growth comes from CO₂ emitted by organisms in a biologically vigorous soil.

9. Accelerate crop germination, emergence and early growth.

In a lab demonstration, our **SP-1** biological was applied on the soil in a Petri dish, and seeds were planted. An untreated control dish