

**Add 1% ...and Gain Thousands!**

Just a **1%** increase in Organic Matter equals...

**2,494 pounds of nutrients per acre.**

This is a great way to combat your increase in fertilizer costs.

Increase your organic matter just **1%** and receive\*

**2494#** of Nutrients per acre  
**1000# Nitrogen**  
**651# Phosphates**  
**115# Potash**  
**728# Calcium**

Building Organic Matter (OM) is the cornerstone of biological farming and the Key to healthy soil. OM is essential to have healthy soil... and has a dramatic impact on your farm's profitability... as like shown [HERE](#) in this Residue Management sheet. \* Calculation based on the data in the Residue Management Sheet.

High Organic Matter in your soil is becoming even more important as an increase in extreme weather patterns develop, input costs increase, and supply chains are disrupted.

### **CASE STUDY: Building Organic Matter using Biological Farming Practices**


AgriEnergy Solutions, in the midwest, did a case study to compare their farm with the neighbors to the South and to the West. Samples were pulled from fields that had been biologically farmed for several years, and from adjoining conventionally farmed fields with the same soil types.



Soils were tested by Midwest Laboratories. The soil samples were taken from these 3 soil sections:

- Top: 3 inches
- Middle: 3 – 6 inches
- Bottom: 6 – 12 inches

## Neighbors to the SOUTH

		Organic Matter Results for the AES Farm compared to the				
		<b>SOUTH Neighbor</b>				
Soil Layer	Location	Hole A	Hole B	Average	Advantage	% Advantage over Neighbor
Top	AES Farm	4.1	3.5	3.80		
3"	South Neighbor	2.9	3.3	3.10	0.7	<b>22.6%</b>
Middle	AES Farm	4.8	3.8	4.30		
3 - 6"	South Neighbor	3.2	3.6	3.40	0.9	<b>26.5%</b>
Bottom	AES Farm	3.2	3.5	3.35		
6 -12"	South Neighbor	2.8	3.3	3.05	0.3	<b>9.8%</b>

Results showed that in every instance the organic matter was higher on the biologically farmed field than on the neighboring field that was conventionally farmed. The difference across a line where a fence once stood was amazing!!!

## Neighbors to the WEST

This time, *the AES Farm soil was compared to the conventionally-farmed soils adjoining their neighbors to the WEST.*

		Organic Matter Results for the AES Farm compared to the				
		<b>WEST Neighbor</b>				
Soil Layer	Location	Hole A	Hole B	Average	Advantage	% Advantage over Neighbor
Top	AES Farm	4	3.3	3.65		
3"	West Neighbor	2.7	2.5	2.60	1.1	<b>40.4%</b>
Middle	AES Farm	4.1	3.5	3.80		
3 - 6"	West Neighbor	2.7	2.4	2.55	1.3	<b>49.0%</b>
Bottom	AES Farm	2.6	3.1	2.85		
6 -12"	West Neighbor	2.7	2.5	2.60	0.3	<b>9.6%</b>

Even more dramatic! Averaging these two sites, the biologically farmed soil has 3.9% organic matter compared to 2.9% on conventionally farmed soils. that's

**1% MORE ORGANIC MATTER !!**

Think about what this could mean for savings in fertilizer costs on your farm!

**Contact your local FSM Dealer**

rep to help you get the ball rolling on INCREASING the Organic Matter in YOUR SOILS.