



Terra Ag
Technologies®

"Producing higher yields for growers, one farm at a time."®

100%
sustainable
Produced without
greenhouse gas emissions



Organic Plant & Soil Pro 2™ SUSTAINABILITY PROGRAM

Trial Results by using Organic Plant & Soil Pro 2 in Potatoes and Sugar Beets
Improvement of Soil Regeneration and Carbon Sequestration

Location: **Pocatello, Idaho**

Year: **2025**

Crop: **Potatoes and Sugar Beets**

Farms: **1. Koompin Farms (Potatoes)**

2. Loveland Farms (Potatoes)

3. Bethke Farms (Sugar Beets)

Soil Program Executed:

Grower Std. Nutritional Program + 3 Applications of 7 Gallon/Acre (Each) of **Organic Plant & Soil Pro 2**, through irrigation of soil.

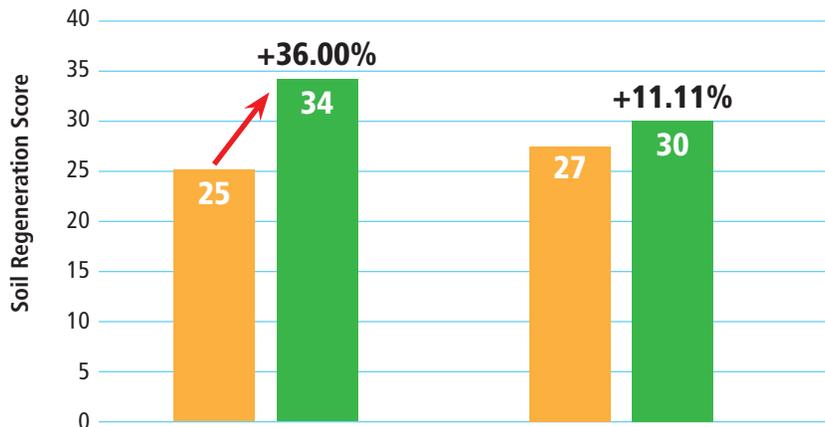
Objectives of the Program:

1. The main objective of this study is to evaluate Terra Ag Technologies products in improving soil conditions: soil regeneration, soil life and soil carbon sequestration.
2. Support a sustainable program at the production level.



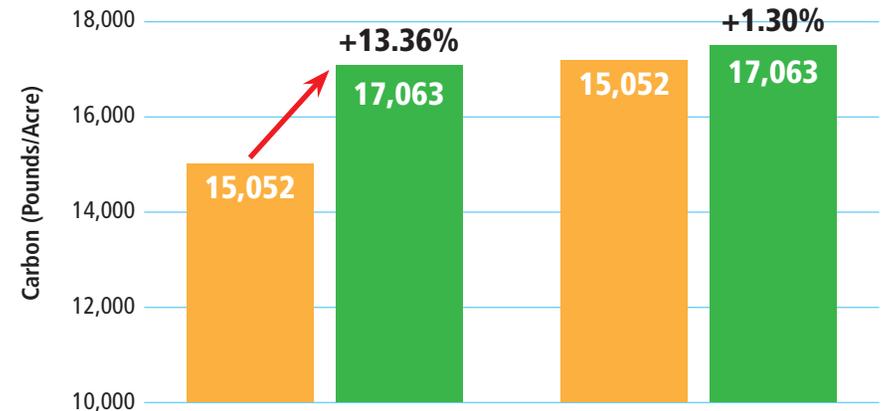
Results Per Farm

**Soil Regeneration Improvement
Koompin Farms, Pocatello, Idaho 2025**



	Treated		Control	
	Soil Regeneration Score	% Difference	Soil Regeneration Score	% Difference
Initial Soil Condition	25	36.00	27	11.11
Final Soil Condition (After Treatment)	34		30	

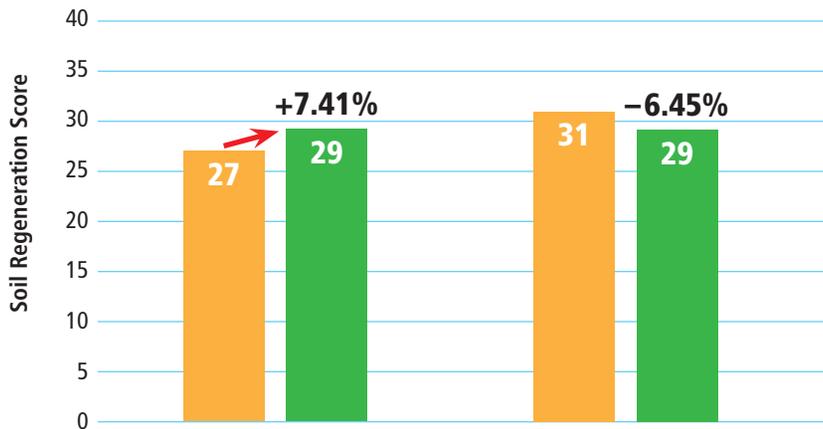
**Soil Carbon Sequestration Improvement
Koompin Farms, Pocatello, Idaho 2025**



	Treated		Control	
	Soil Carbon Sequestered (Pounds/Acre)	% Difference	Soil Carbon Sequestered (Pounds/Acre)	% Difference
Initial Soil Condition	15,052	13.36	17,210	1.30
Final Soil Condition (After Treatment)	17,063		17,434	

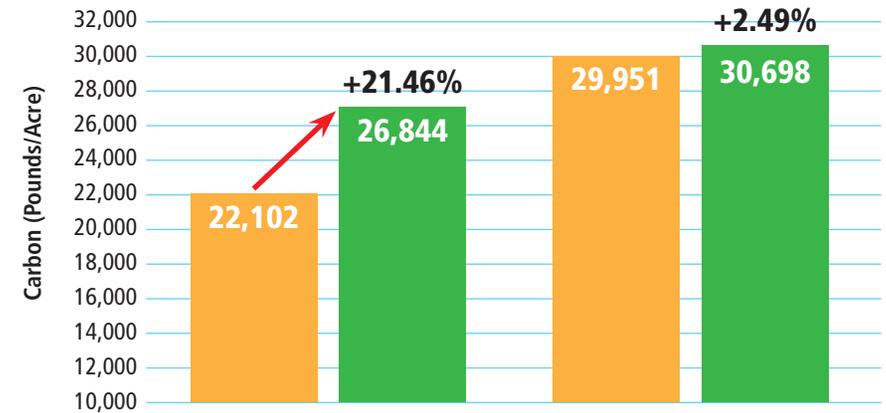
Results Per Farm

**Soil Regeneration Improvement
Loveland Farms, Pocatello, Idaho 2025**



	Treated		Control	
	Soil Regeneration Score	% Difference	Soil Regeneration Score	% Difference
Initial Soil Condition	27	7.41	31	-6.45
Final Soil Condition (After Treatment)	29		29	

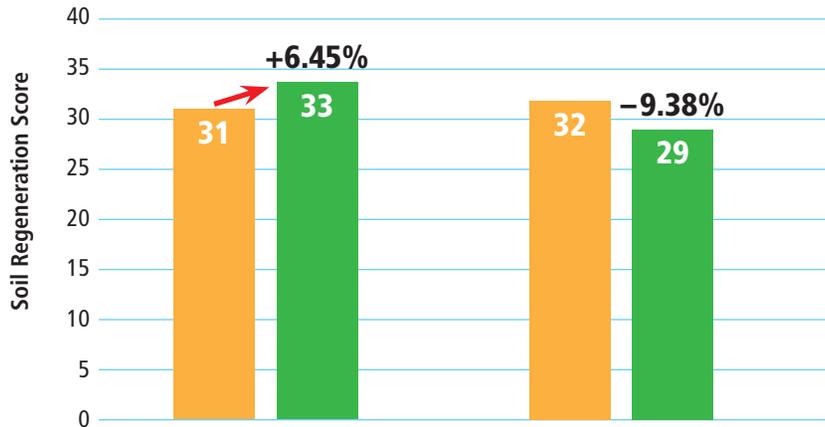
**Soil Carbon Sequestration Improvement
Loveland Farms, Pocatello, Idaho 2025**



	Treated		Control	
	Soil Carbon Sequestered (Pounds/Acre)	% Difference	Soil Carbon Sequestered (Pounds/Acre)	% Difference
Initial Soil Condition	22,102	21.46	29,951	2.49
Final Soil Condition (After Treatment)	26,844		30,698	

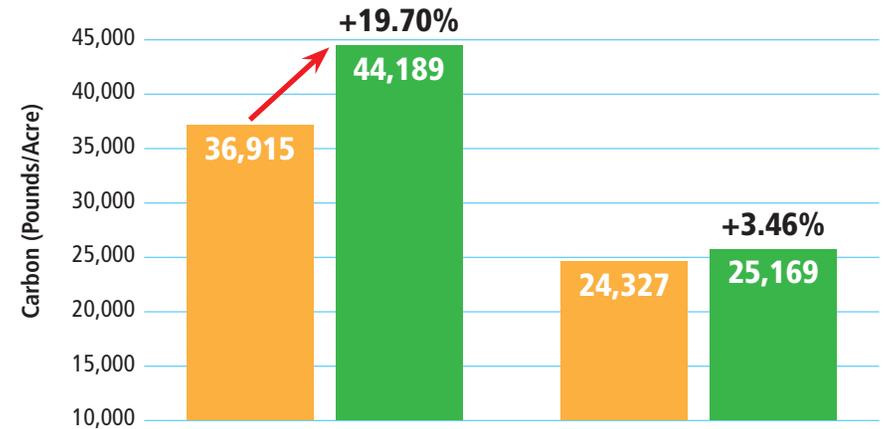
Results Per Farm

**Soil Regeneration Improvement
Bethke Farms, Pocatello, Idaho 2025**



	Treated		Control	
	Soil Regeneration Score	% Difference	Soil Regeneration Score	% Difference
Initial Soil Condition	31	6.45	32	-9.38
Final Soil Condition (After Treatment)	33		29	

**Soil Carbon Sequestration Improvement
Bethke Farms, Pocatello, Idaho 2025**



	Treated		Control	
	Soil Carbon Sequestered (Pounds/Acre)	% Difference	Soil Carbon Sequestered (Pounds/Acre)	% Difference
Initial Soil Condition	36,915	19.70	24,327	3.46
Final Soil Condition (After Treatment)	44,189		25,169	

Results Per Farm

Consolidated Values

	Soil Carbon Sequestration			Soil Regeneration (Score)		
	Per Plant Carbon Tons/Acre	At Harvest Tons/Acre	Change Carbon Tons/Acre	Pre Plant Soil Regeneration	At Harvest Soil Regeneration	Change Soil Regeneration
Treated	12.34	14.68	2.34	27.67	32.00	4.33
Control	11.91	12.22	0.30	30.00	29.33	-0.67

Conclusion:

Total soil regeneration increased 4.33 score points or 15.64%. When compared with control blocks, there was a difference of 5 score points of more regeneration in the treated soil. This translates to an increased availability and balance of nutrients for crop production and total soil health.

Total soil carbon increased by 2.34 tons of carbon sequestered per acre were treated or 18.96% more. This determines that by increasing soil biology and overall conditions, 2.34 more tons of carbon per acre, in average, were sequestered into the soil. When compared with control blocks there is a difference of more than 2 tons/acre. This increased a sustained productive system.

Final Summary of Results

1. All soil parameters were improved significantly.
2. Total soil regeneration increased 4.33 score points or 15.64%, and compared with control blocks, there was a difference of 5 score points of more regeneration in soil where treated, which means that the soil had increased availability and balance of nutrients for crop production and total soil health.
3. Total soil carbon increased by 2.34 tons of carbon sequestered per acre were treated or 18.96% more. This determines that by increasing soil biology and overall conditions, 2.34 more tons of carbon per acre, in average, were sequestered into the soil, with a difference with the control blocks of more than 2 tons/acre. This increased a sustained productive system.
4. There was a significant improvement in soil microbiology, increasing the groups of microorganisms that play an important role in all nutrient mineralization, increasing the soil structure for long term productive cycles and less pathogen colonization and less disease incidence damage.
5. The total soil microbial life rate saw a dramatic increase by implementing the program. This indicates that the recovery of life in soil and growth of all microorganisms was positive, increasing all populations, regenerating a more active and vigorous soil system.
6. The Organic Plant & Soil Pro 2 program had a positive impact in soil conditions and overall soil sustainability. This direct effect in improving the soil environment leads to healthier crops, enabling growers to sustain their quality, and increase yields.
7. Many retailers, food manufacturers and processors are setting expectations for measurable results of proven soil regeneration and carbon sequestration from their supply chain partners. Growers who catch on early to these expectations will become the preferred supply partners.