Terra Ag Technologies®

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

100% sustainable
Produced without greenhouse gas emissions

OMRI LISTED
For Organic Use

Carrots with Organic Plant & Soil Pro 2™

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

Location: El Centro, CA

Ranch: Mesa Ranch: Heritage Farms

Date: 2024-2025

Variety: Carrots (Organic)

Total Production Area Treated: 71.23 Acres

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

Main Objectives of the Program:

1. To evaluate Terra Ag Technologies products in improving yield, quality and soil conditions. Such as: soil regeneration, soil life and soil carbon sequestration.
2. Support and advance current sustainability programs at the grower's field production level.

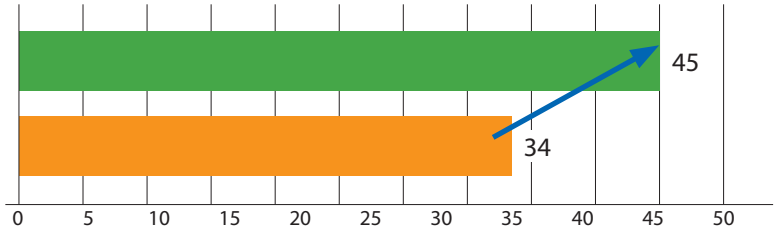
Terra Ag Technologies®
"Producing higher yields for growers, one farm at a time."®

Heritage Farms Grimmway Carrots • El Centro, CA • Mesa Ranch • May 2025
Total Area Treated: 71.23 Acres

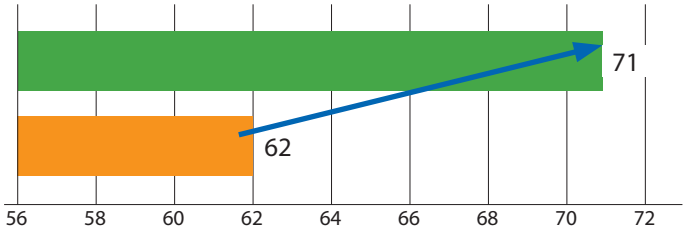
Consolidated Values

	Soil Regeneration	Soil Fertility	Carbon Sequestered	Soil Beneficial Microbial Rate (in PPM)
Initial Soil Condition	34	62	9.75	30.20
Final Soil Condition (After Treatment)	45	71	14.09	105.80
% Differences	**32.35%**	**14.52%**	**44.48%**	**250.33%**

Soil Regeneration Conditions

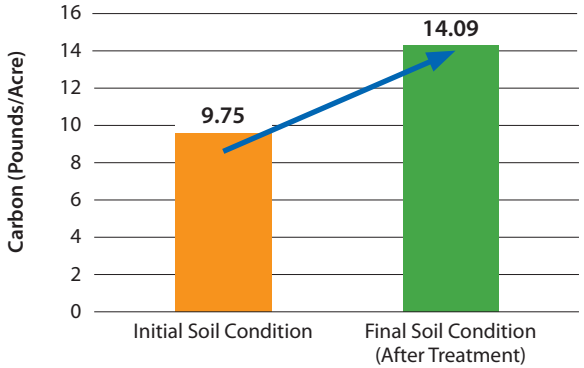


Soil Fertility Conditions



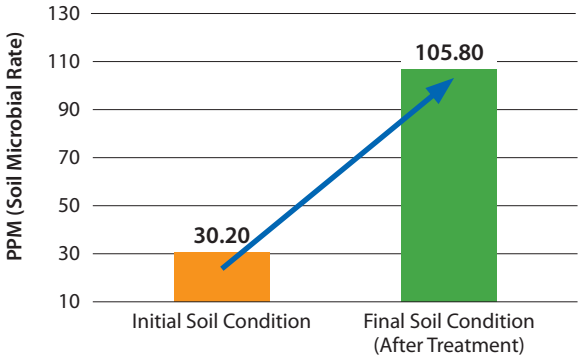
Conclusion: Total Soil Regeneration conditions increased 11 score points or 32.35%. Soil Fertility conditions increased 9.00 points, or 14.52%. Improvements in these soil conditions resulted in the increased availability and balance of applied nutrients for crop production and overall soil health.

Soil Carbon Sequestration Improvement



Conclusion: Total Soil Carbon increased by 4.34 Tons/Acre, or 44.48%. The increase in Soil Life (microbial) conditions correlates to the increased sequestration in measured Soil Carbon (Tons per acre), supporting and advancing the grower's sustainability programs in its field production system.

Soil Life (Microbial Rate) Condition Improvement



Conclusion: Total Soil Life (microbial) conditions increased dramatically over the course of the project program with the addition of the Terra Ag Technologies product. The increase of 75.60 ppm or 250.33% demonstrates a regeneration in the microbial soil life of all existing populations, producing a more active and vigorous soil system.

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

Final summary for Heritage Farms – Grimmway Carrots
El Centro, California 2025

1. In addition to higher yields and quality of carrots, all soil parameters were improved significantly.
2. Total Soil Regeneration conditions increased 32.35% along with improvements in the Soil Fertility conditions of 14.52%. The results point to increased availability of and a balance in nutrients for improved crop production and overall soil health.
3. Total Soil Carbon sequestration increased by 4.34 Tons/Acre, or 44.48%. A corresponding and significant increase in the Soil Life (microbial) conditions suggests a strong correlation in the elevation of Soil Carbon sequestered.
4. The significant improvement in the populations of soil microbials supports the importance of the role microorganisms play in nutrient mineralization. Furthermore, their activity helps to develop good soil structure for long term productive cycles. Healthy vigorous plants and root systems may also lead to improved resistance to plant pathogens and a lowering of disease incidence damage.
5. Total Soil Life (microbial) conditions increased dramatically during the course of this project program with the applications of the Terra Ag Technologies product. Microbial rates improved by over 250%. The regeneration of the existing soil life and increases in the populations produced a more active and vigorous microbial soil system.
6. The significant positive impact in soil life conditions creates an elevated foundation of crop production that directly benefits the environment through a more efficient utilization of nutrient inputs and water resources. Improved crop plant health may also result in better resistance and recovery to plant pathogens.
7. Our vision is to help growers – large and small – tell their real-world stories of sustainability that demonstrate the true 'value added' component of their regenerative agriculture practices to their supply chain stakeholders and customers.