



Terra Ag Technologies®

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



DOLE EXPERIENCES & RESULTS With Terra Ag Technologies

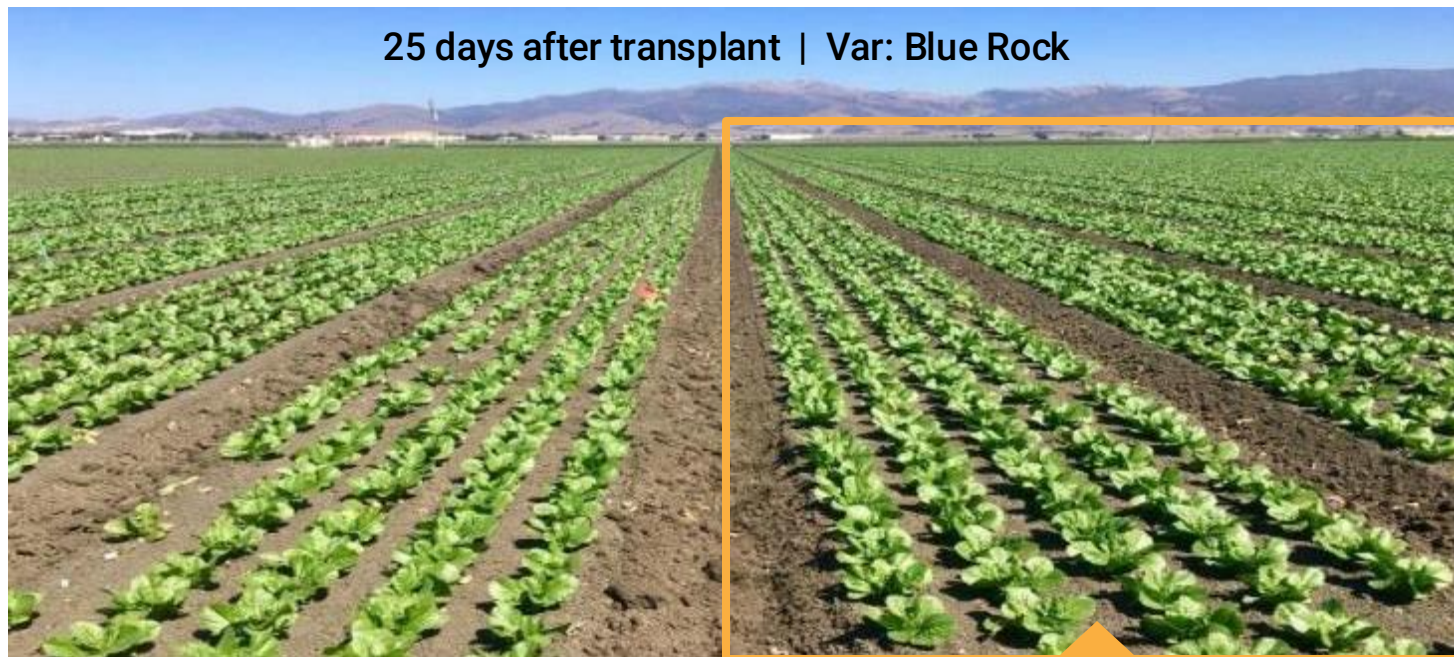
- ✓ Benefits in Nursery ✓ Benefits in Yields ✓ Benefits in soil regeneration

Key Objectives

- Increase root devotement in the nursery to reduce stress when transplanting
- Shorten growing cycles
- Increase yields
- Increase soil regeneration



**Romaine in PlantTape results with Organic Plant & Soil Pro 2. Salinas 2023.
Healthier plants with higher growth and 35% less damage by INSV.**



Control

Organic Plant & Soil Pro 2



DOLE Nursery Results, Salinas Ca. Grower Std. vs. Organic Plant & Soil Pro 2 treated in Nursery



Organic Plant & Soil Pro 2



Control

Plants treated with Organic Plant & Soil Pro 2 developed stronger root systems, thicker stems, and more vigorous overall growth.



**Romaine, Abilene (Dole, Rodriguez Ranch.), Salinas Ca. April 2023.
Grower Standard vs. Organic Plant & Soil Pro 2
treated in Nursery and In Field, PlantTape
Yield Difference at harvest: 24.65% More Yield.**



Control

Organic Plant & Soil Pro 2

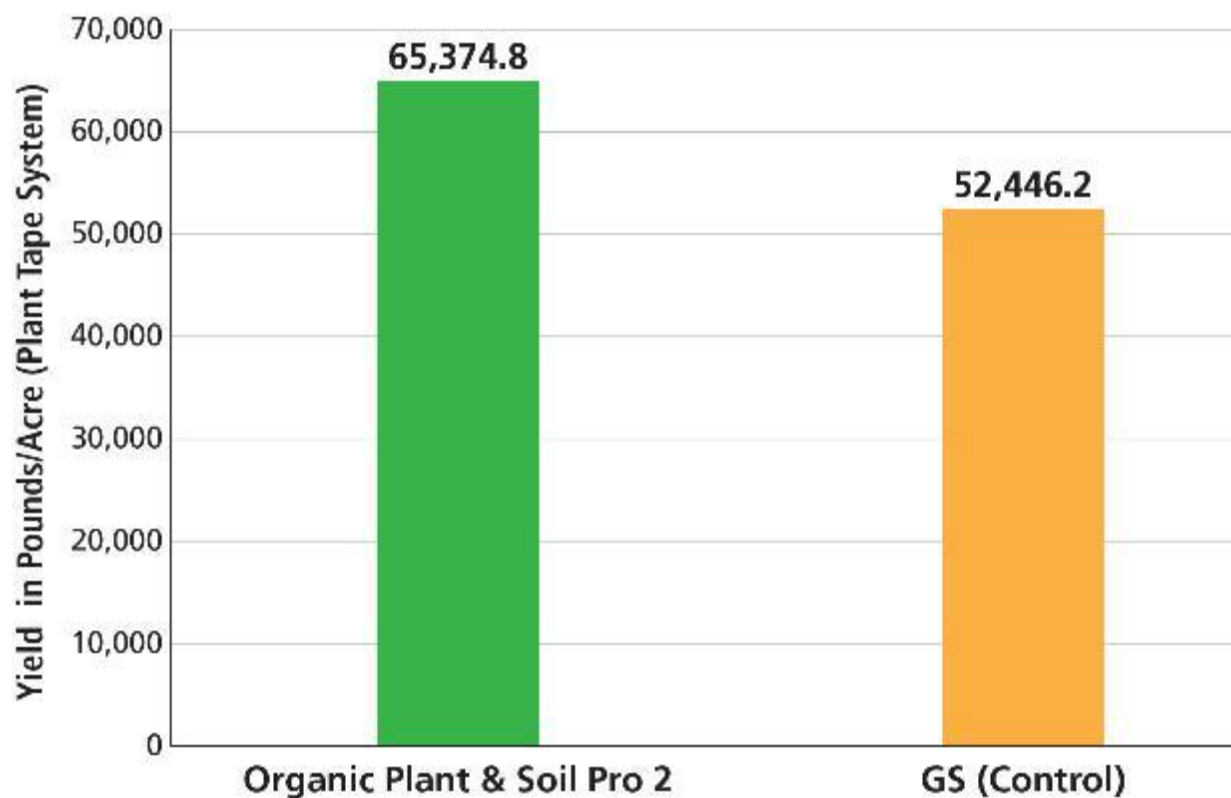
Romaine with Organic Plant & Soil Pro 2 produced larger and denser lower core.

All Analysis Conducted by: Helena Ag. Research Dept.



Romaine Commercial Results, Salinas, CA
With Organic Plant & Soil Pro 2,
12,928 More Pounds/Acre or 24.65% More Yield

Treated with Organic Plant & Soil Pro 2 in Nursery and in Field



Data Collected and Verified by Grower Harvest Department



DOLE RESULTS With Terra Ag Technologies

- Significantly increased root development all the nnursery plants
- Much less stress seen in the field when transplanting
- Romaine transplanted growing cycle was shortened by 10 days
- Romaine transplanted had a 24% yield increase vs. our grower standard program
- **Higher yields** and **shorter growing cycles** demonstrate significant soil regeneration



**Nutrition Treatment Programs with Terra Ag Technologies:
Yields, Biological and Soil Results.
Three Trials Oxnard & Salinas. Crop–Celery**

Key Objectives

- Increase root devotement in the nursery to reduce stress when transplanting
- Shorten growing cycles
- Increase yields
- Increase soil regeneration

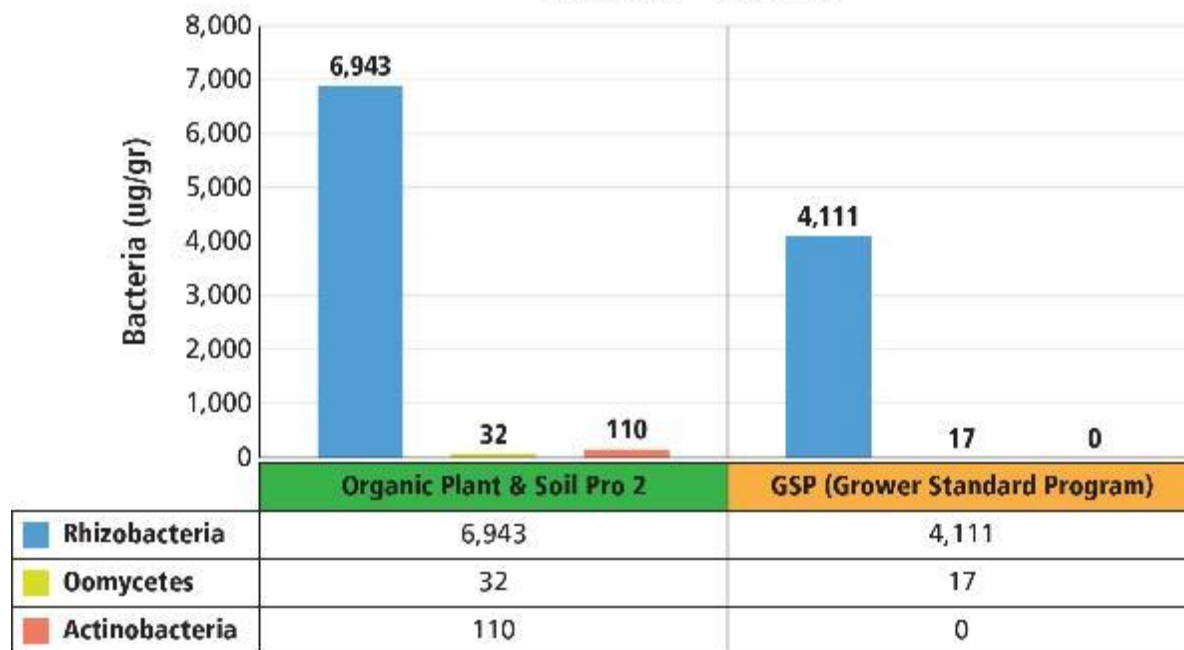


Grower Standard vs. Organic Plant & Soil Pro 2
Plants treated in Nursery and In Field, PlantTape, Gonzales Ranch, Oxnard. May 28, 2023

Yield Difference: 361 More Boxes/Ac
Bio Results: 40% More Bio Population & 25% less Fusarium Damage

Bio Soil Analysis, Rhizobacteria in Celery (Plant Tape System)
With Organic Plant & Soil Pro 2,
40.7% more Micro Beneficial Activity

Oxnard, CA – May, 2022



Data from Wesley Footland Micro Lab

Soil Health Observations by Grower:

Soil with **Organic Plant & Soil Pro 2** achieved 40% more biological beneficial activity, in rhizobacteria and Mycorrhizas, leading to more efficiency in nutrients absorption and an increased natural capacity of crop to resist and tolerate fusarium (2 & 4) damage.

According to Harvest Crew, the block Grower Standard has about 35%+ fusarium damage, while block with Organic Plant & Soil Pro 2 had only 15% fusarium damage.

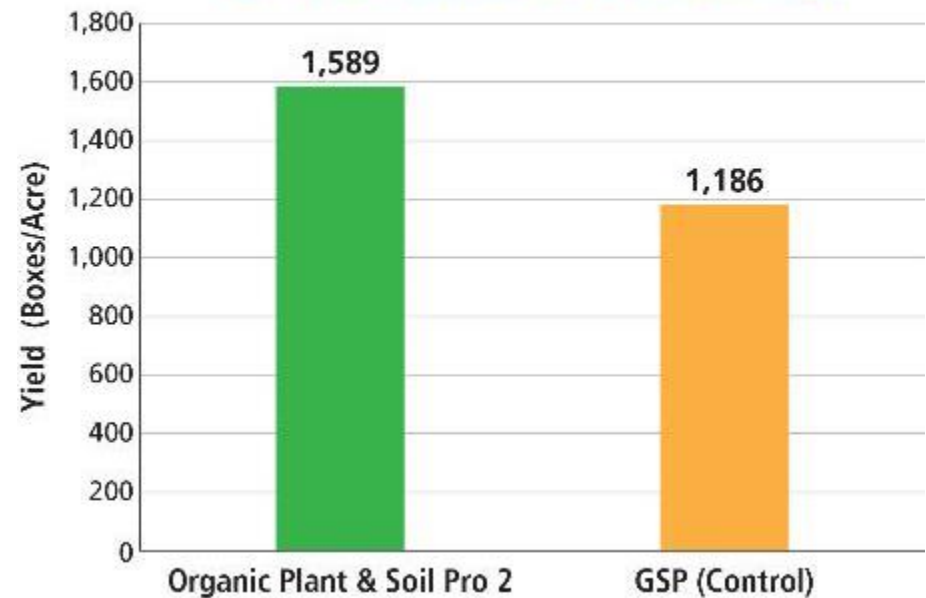


	Treatments	Experimental Area Sizes Distribution				Yield (Total Boxes/Acre)	Area (1 Acre)	Fusarium 2 & 4 Incidence in %
		24	30	36	48			
1	Organic Plant & Soil Pro 2	218	968	238	165	1,589	1.00	15%
2	GS (Control)	71	689	177	249	1,186	1.00	35%

Dole Celery in PlantTape Dole Harvest Department Data Oxnard, Block 1

1. Treatment A: Celery in PlantTape with **Organic Plant & Soil Pro 2** in Greenhouse and **Organic Plant & Soil Pro 2** in Field + GSP.
2. Treatment Control: Celery in PlantTape with Grower Standard Program (GSP) in Greenhouse and in Field.

Celery Commercial Results in PlantTape, Oxnard, CA
With Organic Plant & Soil Pro 2,
403 More Boxes/Acre or 33.90% More Yield
and 25% Less Fusarium 4 & 2 Damage



Data Conducted, Verified, and Provided by Principal Company Harvest Department



Grower Standard vs. Organic Plant & Soil Pro 2
Plants treated in Nursery and In Field, PlantTape, Gonzales Ranch, Oxnard. May 28, 2023

Transplant Day



Organic Plant & Soil Pro 2

Control

Harvest Day



Organic Plant & Soil Pro 2

Control



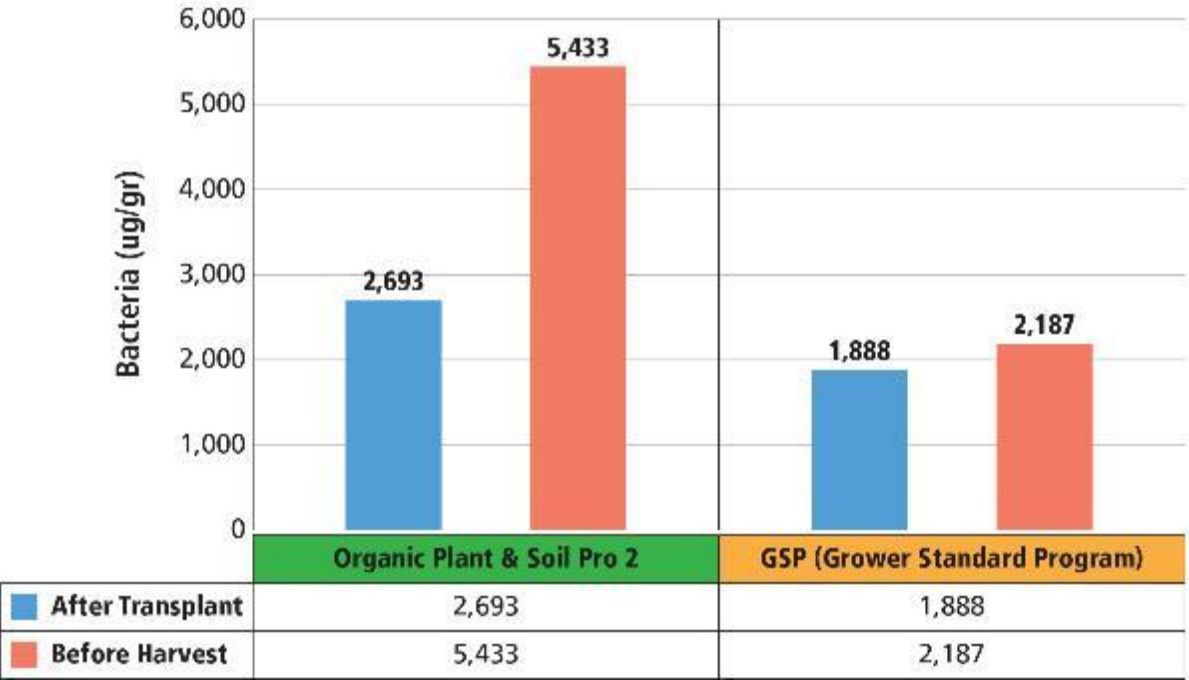
Grower Standard vs. Organic Plant & Soil Pro 2

Plants treated in Nursery and In Field, Standard Plug, Frederick Ranch, Oxnard. Transplant Date 11/11/2023

BIOSOIL MICROBIOLOGY ANALYSIS

Graph (With Behavior of Rhizobacteria, after transplant and before Harvest.

Bio Soil Analysis, Rhizobacteria in Celery, Treatment Comparison
(After Transplant and Before Harvest)
Friedrich Ranch, Oxnard, CA – 2021



According to Lab analysis, the treatment with **Organic Plant & Soil Pro 2** generated the highest amount of benefit rhizobacteria. There was a nearly 100% increase in nutrient absorption into both the root system and the plant. This provides the roots with a preventive barrier against pathogens, including fusarium 2 & 4.

Starting with a middle number of rhizobacteria, the number increased before the harvest, satisfying the plants’ needs to get more nutrients during harvest season.

The other GSP treatment presented a significant less growth, decreasing the absorption of nutrients by the plants, as well providing less preventive protection.



Grower Standard vs. Organic Plant & Soil Pro 2
Plants treated in Nursery and In Field, Standard Plug, Frederick Ranch, Oxnard, CA

Celery, Standard Tray. 53 days after transplant. Front Winter Planting.
Transplant Date 11/11/2023



Control



Organic Plant & Soil Pro 2



Grower Standard vs. Organic Plant & Soil Pro 2
Plants treated in Nursery and In Field, Standard Plug, Frederick Ranch, Oxnard, CA

21 Days before programmed.
Transplant Date 11/11/2023



Organic Plant & Soil Pro 2



Control



Organic Plant & Soil Pro 2



Control



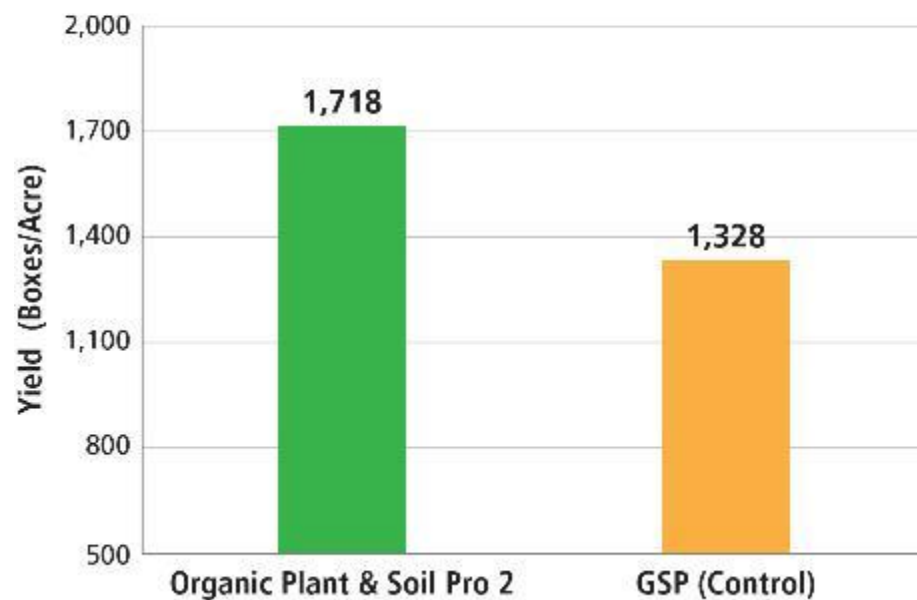
Grower Standard vs. Organic Plant & Soil Pro 2

Plants treated in Nursery and In Field, Standard Plug, Frederich Ranch, Oxnard, CA

Yield Differences

Celery Commercial Results – Oxnard, CA
Yield in Boxes/Acre
With Organic Plant & Soil Pro 2,
390 More Boxes/Acre or 29.40% More Yield

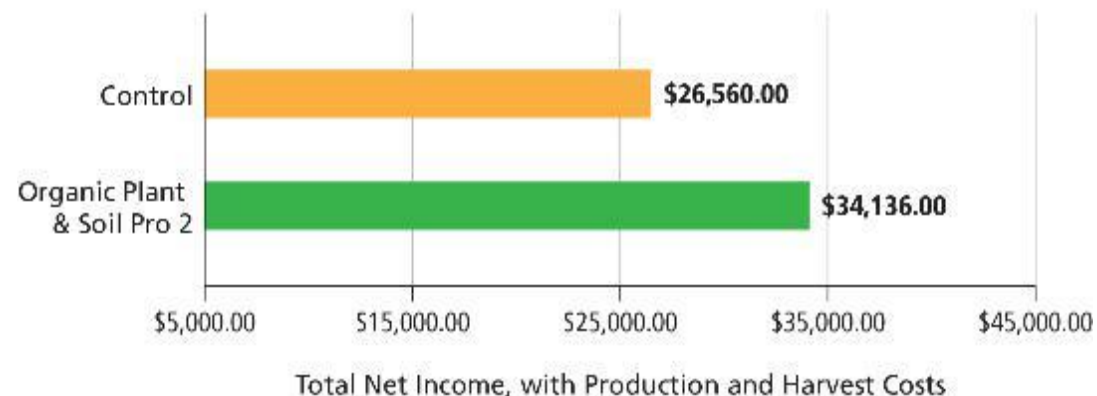
Treated with Organic Plant & Soil Pro 2 in Nursery and in Field
Harvested 21 Days Before Programmed



Data Collected and Verified by Grower Harvest Department

Financial (ROI)

Total Income/Acre & ROI
Celery, Per Marketable Boxes, Oxnard CA
ROI = 33.82 or \$7,576.00 Extra Income
By Using Organic Plant & Soil Pro 2 in Nursery and in Field





Grower Standard vs. Organic Plant & Soil Pro 2
Plants treated in Nursery and In Field, Standard Plug, Frederich Ranch, Oxnard, CA

Yield Summary in Block 3, Fresh Home Ranch, Salinas Ca.
Harvest Date (Nov/11/ 2023) 11 days before EHD

Treatments		Description
1	301 (TOP)	Fish protein hydrolysate, soy protein hydrolysate, corn steep liquor, reduced sugar molasses, acidulated fish soluble, and kelp extract
2	Proactive (TOP)	Corn steep liquor, beet molasses, soy protein hydrolysate, fish protein hydrolysate, seaweed extract, beet extract, and shrimp shell meal
3	Organic Plant & Soil Pro 2	Mode of action: feed the plant and stimulate the soil biota and root system, activating the natural defenses of the plant and increasing vigorous growth. Compounded by plant extract (Solanaceae family + Bio activators). Includes fulvic and humic acids, proteins, amino acids, micro- and macro-elements.
4	GS (Control)	Grower standard as control



Grower Standard vs. Organic Plant & Soil Pro 2
Plants treated in Nursery and In Field, Standard Plug, Frederich Ranch, Oxnard, CA

Yield Summary in Block 3, Fresh Home Ranch, Salinas Ca.
Harvest Date (Nov/11/ 2023) 11 days before EHD

Treatments	Sizes Distribution Per Acre			Yield (Total Boxes/Acre)
	24	30	36	
301 (TOP)	430	1,024	72	1,527
Proactive (TOP)	474	937	74	1,486
Organic Plant & Soil Pro 2	744	1,100	37	1,881
GS (Control)	500	809	29	1,338

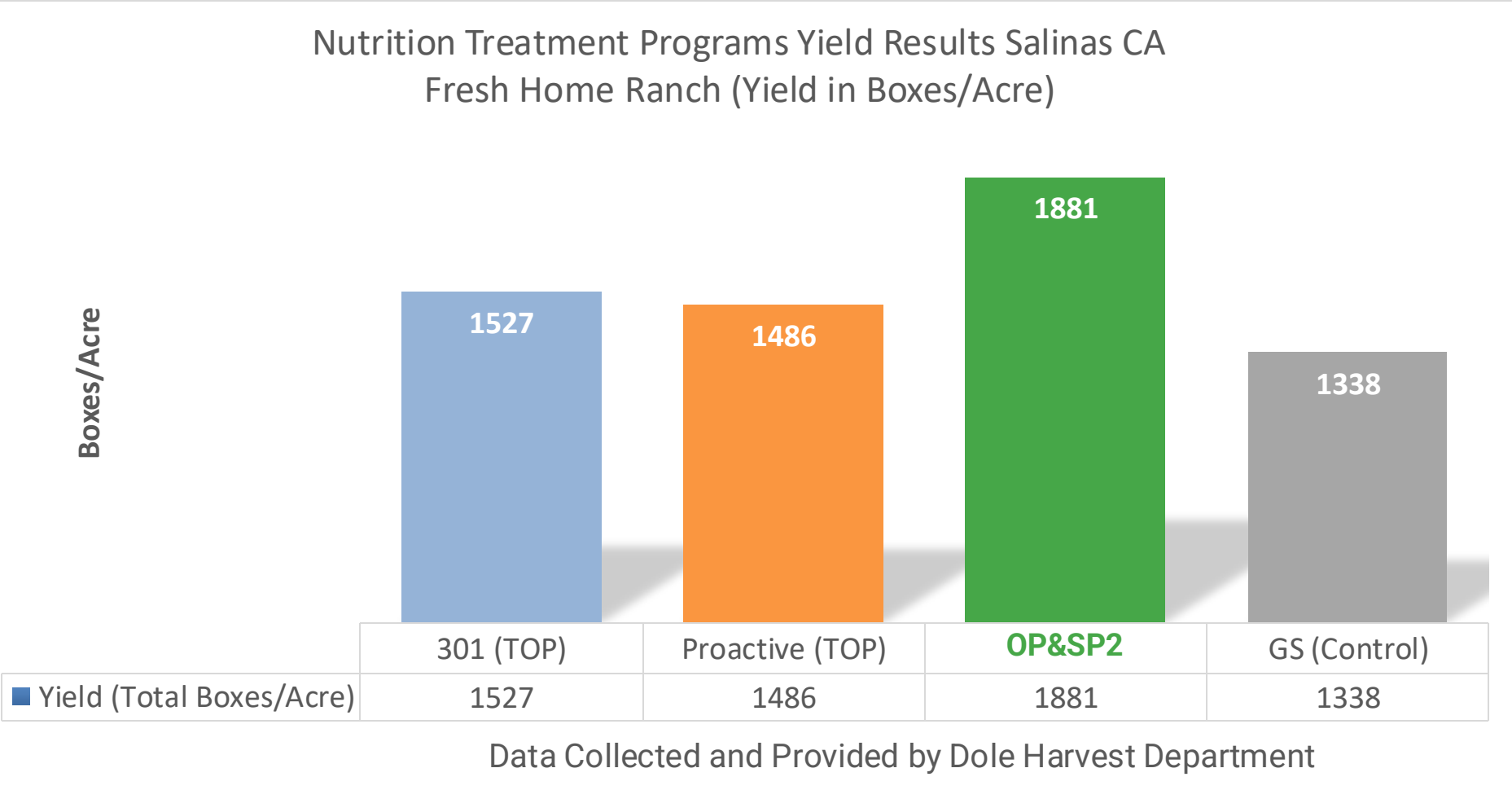
Dole Harvest Department Data | Salinas, CA Fresh Home Ranch



Treatment 3–3 Different Treatments (301, Proactive & Organic Plant & Soil Pro 2)
(Nursery + Soil Treatment + Grower Standard), & GS, Grower Standard (Nursery + Soil Treatment as
Control).

Yield Summary

Harvest Date (Nov/11/ 2023) 11 days before EHD





**Treatment 3–Transplant day & 14 days after
(GSP vrs. Organic Plant & Soil Pro 2 plants treated in Nursery, Salinas)**

Grower Std (GS) in Nursery



Organic Plant & Soil Pro 2

**50% less Transplant Shock &
Minimal Root-pruning**





DOLE RESULTS–CELERY With Terra Ag Technologies

- Significantly more beneficial bacterial then the control
- 25% less Fusarium Damage
- Increased root development in the nursery plants and at harvest
- Much less stress seen in the field when transplanting
- 29% yield increase vs. the grower standard program
- Celery treated with Organic Plant & Soil Pro 2 was harvested 11 days earlier then the grower standard program
- Higher yields and shorter growing cycles demonstrate significant soil regeneration