



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™ Yellow Sweet Potatoes

Sweet Potatoes (Yellow) with Organic Plant & Soil Pro 2™

vs. the control group –

5.71 More Tons Per Acre or 35% More Yield

Biological Soil Content Analysis

Ranch: Val Mar Ranch, Bakersfield, California

Date: July 2024

Variety: Bonita

Soil Type: Sandy-Silt loam

Organic Plant & Soil Pro 2™: 12 acres (North Side)

10 GL Organic Plant & Soil Pro 2/Acre every 2 weeks + 15 Units of N/Ac/Month + 2 Tons Chicken Pellet/Ac

Control: 12 Acres (South Side)

30 GL Fish Fert 4-2-2/Acre every 2 weeks + 15 Units of N/Ac/Month + 2 Tons Chicken Pellet/Ac



Control



Organic Plant & Soil Pro 2



- ▶ With Organic Plant & Soil Pro 2 Natural Fertilizer, more foliage, greener crop with more chloroplast, and more density, with more photosynthesis activity.



- ▶ With Organic Plant & Soil Pro 2 Natural Fertilizer, the sweet potato plants developed better overall root system. With increased nutrient absorption capacity, plants have better quality and bigger sizes fruit, higher weight and higher yield.

Control

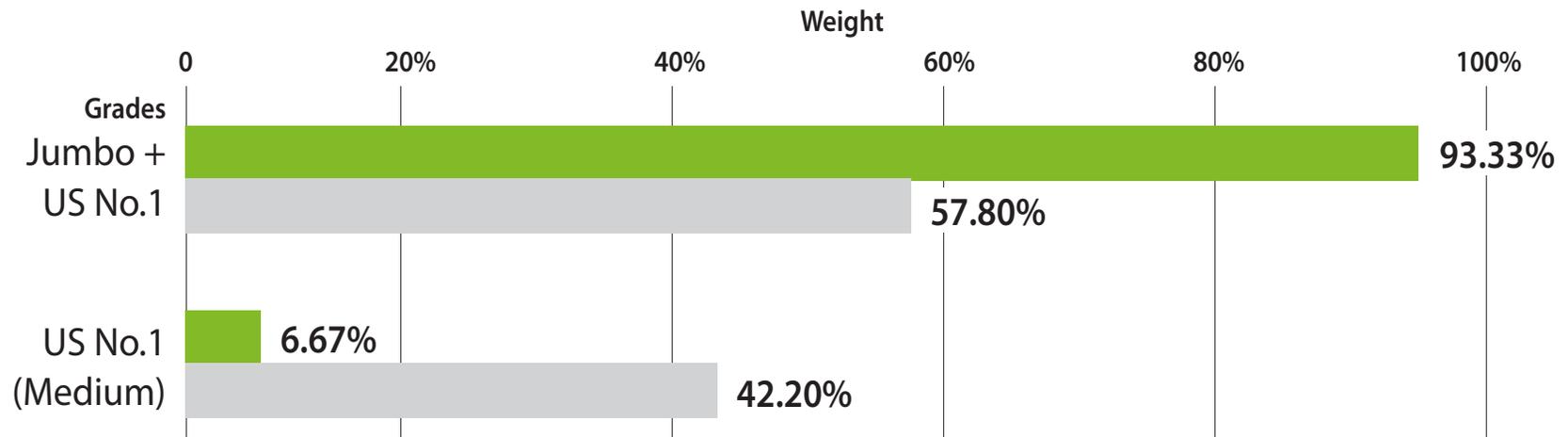


Organic Plant & Soil Pro 2



Grade	Organic Plant & Soil Pro 2	Control
Jumbo	64.98%	14.99%
US No.1	28.35%	42.81%
US No.1 (Medium)	6.67%	42.20%

Sweet Potatoes (Yellow) Grades (size+weight) Distribution



- ▶ With Organic Plant & Soil Pro 2 Natural Fertilizer, the Yellow Sweet Potato plants have 35.53% more US No.1 & Jumbos than the control.
- ▶ Also, 87.21% of more commercial sizes, with opportunity to obtain better prices and better.

	US No.1 (Medium)	Jumbo + US No.1
■ Organic Plant & Soil Pro 2	6.67%	93.33%
■ Control	42.20%	57.80%

Yield Analysis Per Weight

	Block	Variety	Yield Average Analysis 8 samples ea. 8.50sq/ft (pound)	Harvested Weight Yield (Pounds/Acre)	Harvested Weight Yield (Tons/Acre)
Organic Plant & Soil Pro 2	9	Bonita	12.58	43,821.36	21.91
Control	9	Bonita	9.30	32,408.64	16.20

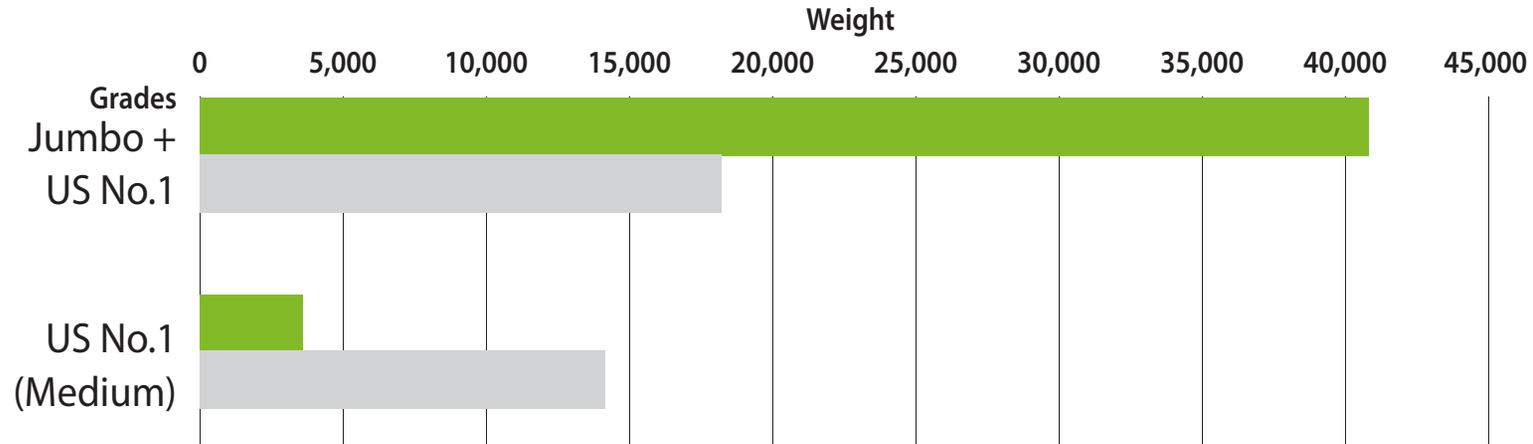
Difference of Extra Yield (Pounds/Acre) Using Organic Plant & Soil Pro 2 vs. Actual Fertilization Program	11,412.72
Difference of Extra Yield (Tons/Acre) Using Organic Plant & Soil Pro 2 vs. Actual Fertilization Program	5.71
Difference (%) More Yield, with Organic Plant & Soil Pro 2	35.22%

Control

Organic Plant & Soil Pro 2



Sweet Potatoes (Yellow) Yield (Pound/Ac)



	US No.1 (Medium)	Jumbo + US No.1
■ Organic Plant & Soil Pro 2	2,922.25	40,898.41
■ Control	13,677.84	18,730.80

- ▶ With Organic Plant & Soil Pro 2 Natural Fertilizer, the Yellow Sweet Potato plants have 118.34% of more commercial sizes. That create opportunity to obtain better prices and better income per crop cycle.

1. **Greater yield:** 35.22% more yield (5.71 More Tons Per Acre)
2. **Better Fruit Grades:** 35.53% More Commercial Grades, with Better Prices, reducing the Mediums Grades and rejected fruit to 6.67%.
3. **Significant reduction in smaller sizes** by 35.50% (10,755 pounds reduction in small and mediums sizes per acre).
4. **Higher quality fruits:** With more dry matter, higher Brix and better sizes.
5. **Overall healthier plants:** More resist to pest damage and inclement weather.
6. Potential to prevent the application of saline products that alter the PH of the soil, and create a **better overall nutritional balance** for the plants.
7. Organic Plant & Soil Pro 2 can **improve the shelf life** by producing quality and healthier fruits.
8. Organic Plant & Soil Pro 2 **improves the natural conditions of soil**, in organic matter and nutrients, for long term sustainable farming.