



# Terra Ag Technologies®

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



## Organic Plant & Soil Pro 2™ Gala Apple

Organic Gala Apples with Organic Plant & Soil Pro 2™

vs. the control group –

**36.64% more yield (3.62 more tons per acre)**

Ranch: **Lodi Ranch**

Date: **November 2023**

Variety: **Gala**

Soil Type: **Clay-Sandy loam**

### **Organic Plant & Soil Pro 2:**

Organic Plant & Soil Pro 2 + Reduction of 50% of Normal Conventional Inputs +  
1 Tons Chicken Pellet/Ac

### **Control:**

Normal Conventional Program (Ferts: 15-15-15, Fruit Mix + Micros +  
1 Tons Chicken Pellet/Ac)



	Block	Block Size (Acres)	Variety	Harvested Weight Yield (Pounds/Acre)	Harvested Weight Yield (Tons/Acre)
Organic Plant & Soil Pro 2	19 & 20	64	Gala	27,000.00	13.50
Control	21 & 22	64	Gala	19,760.00	9.88

Difference of Extra Yield (Pounds/Acre) Using Organic Plant & Soil Pro 2 vs. Actual Fertilization Program	<b>7,240.00</b>
Difference of Extra Yield (Tons/Acre) Using Organic Plant & Soil Pro 2 vs. Actual Fertilization Program	<b>3.62</b>
Difference (%) More Yield, with Organic Plant & Soil Pro 2	<b>36.64%</b>



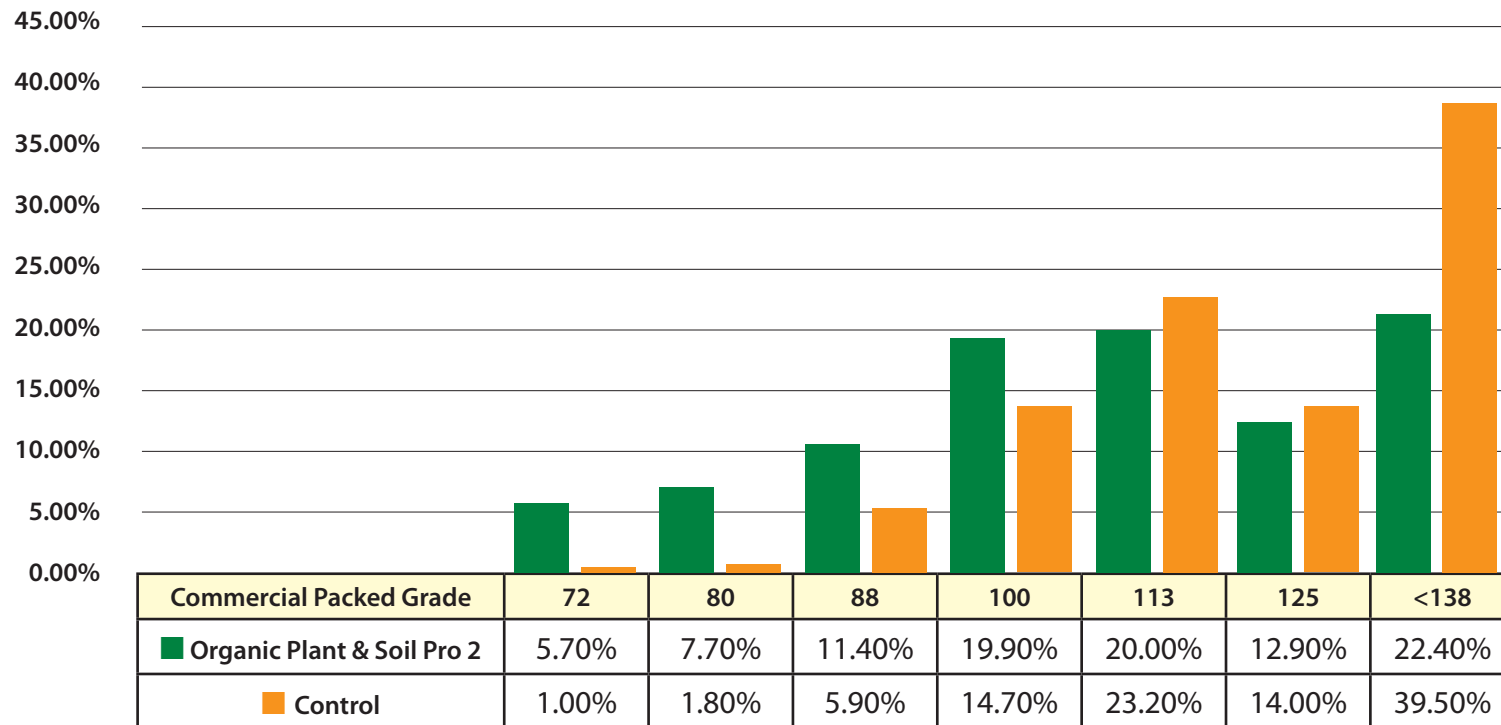
- ▶ The trees produced more uniform sized fruits.
- ▶ The trees have a developed root system to allow for better nutrient absorption capacity.
- ▶ Trees were bigger and with fuller foliage.
- ▶ Greener as a result of more photosynthesis.
- ▶ Room to grow more apples per tree resulting in more yield per acre.



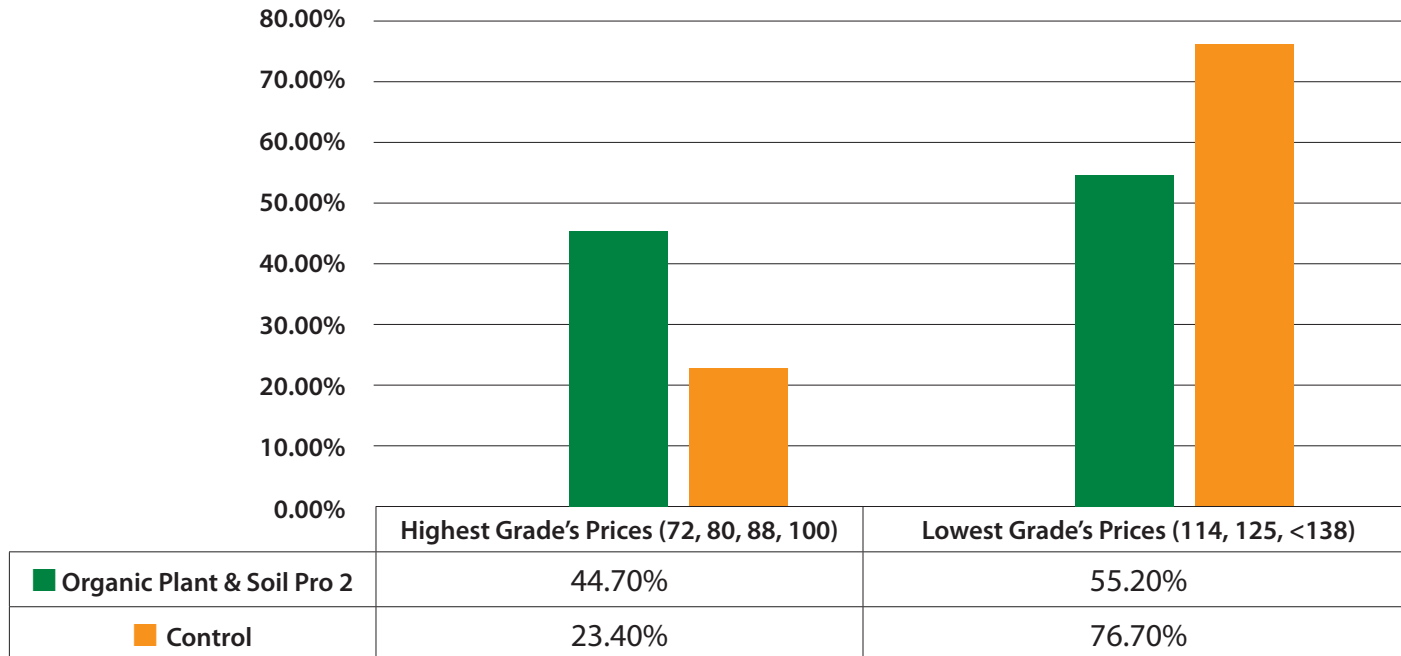
- ▶ Better Dry matter content
- ▶ Higher Brix which indicates that the overall health of the plant to produce quality fruit
- ▶ Better average weight per fruit always result in better yield (tons per acre).
- ▶ 15% better color (evaluated by Packing Plant)



## Total Apples, Sizes Distribution



## Apples, Grades Distribution



Sizes	Organic Plant & Soil Pro 2	Control %	Difference with Organic Plant & Soil Pro 2 and Control
Highest Size's Prices (72, 80, 88, 100)	44.70%	23.40%	91.30%
Lowest Size's Prices (113,125 & <138)	55.20%	76.70%	-28.30%

Grower produced **91.03% more higher priced sizes** than the control and **28.03% less lower priced sizes** with **Organic Plant & Soil Pro 2**. More yield (weight) enables the grower to produce more profitable sizes .

## Final summary and benefits of using Organic Plant & Soil Pro 2

1. Greater yield: 36.64% more yield (3.62 more tons per acre)
2. Better sizing: 21.30% higher sizes, greater returns to the growers.
3. Organic Plant & Soil Pro 2 reduces inputs up to 50%, additional savings for the growers.
4. Higher quality fruits: Consistent color, more dry matter and higher Brix.
5. Overall healthier plants: More resist to pest damage and inclement weather.
6. Organic Plant & Soil Pro 2 can improve the shelf life by producing quality and healthier fruits.
7. Organic Plant & Soil Pro 2 improves the natural conditions of soil, in organic matter and nutrients, for long term sustainable farming.