



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™ Blueberries

Organic Blueberries in Pots with Organic Plant & Soil Pro 2™

vs. the control group –

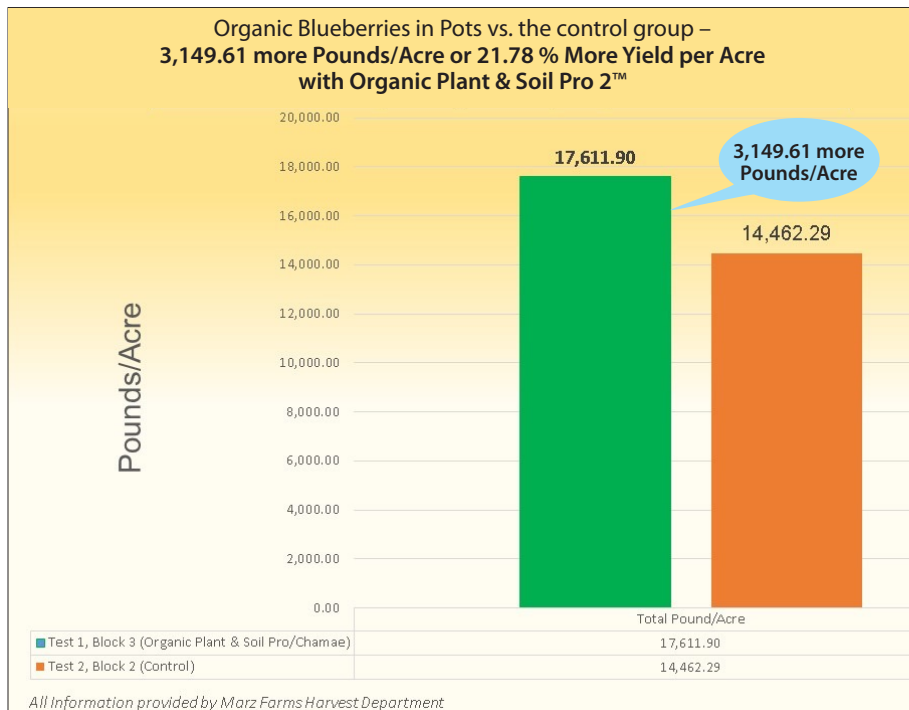
3,149.61 more Pounds/Acre or 21.78 % More Yield per Acre

**Blueberries, Organic in pots (substrate)
Taylor Ranch, Oxnard, CA
Marz Farms
February 2023**

	Acres	Variety	Production system	Total of Pounds harvested Per Block	Yield (Pounds/Acre)
Organic Plant & Soil Pro 2™	2.84	Ceres 19 (180 APAL)	Organic in Pots (Cut back), 3 Year old plants	50,017.80	17,611.90
Test 2, Block 2 (Control)	2.84	Ceres 19 (180 APAL)	Organic in Pots (Cut back), 3 Year old plants	41,072.90	14,462.29

Difference of Extra Yield (Pounds/Acre) using Organic Plant & Soil Pro 2™ vs Grower Standard Programs	3,149.61
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Difference (%) More yield with Organic Plant & Soil Pro 2™	21.78%
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Recommendation

Recommendation per Week:
3 Galons of Organic Plant & Soil Pro 2™
Average Cost per Week (\$18 - \$24), per Acre.

Blueberries Comparison of Agronomic Parameters

No.	Parametros	Control (Test 2)		Organic Plant & Soil Pro 2™ (Test 1)		Differences
		Value	Units	Value	Units	
1	Av. Flowers per Plant. 2nd. Flowering week.	986	units	1078	units	9.33%
2	Av. Flowers per Plant. 4th. Flowering week.	1533	units	1727	units	12.65%
3	Av. Stems Thickness (in mm) per Plant	8.66	mm	9.51	mm	9.82%
4	Chrolofile Content (Photosynthesis Rate)	0.061	mg/cm2	0.064	mg/cm2	4.92%
5	Av. Weight per ea 100 fruits, beginning of Harvest	0.43	lbs	0.471	lbs	9.53%

Agronomic Conclusions

Blueberries with Organic Plant & Soil Pro 2™, showed:

- ▶ More production of flowers since the beginning of the crop and during all cycle, even extending the production time.
- ▶ Plants were healthier, resulting in more thicker stems, with more nutrient translocation capacity for the fruit production.
- ▶ The overall plants showed less elongation, but more vigorous with more flowers and fruits.
- ▶ Most of the foliage showed a higher photosynthesis rate, with opportunity for more carbon synthesis and higher metabolism.
- ▶ Harvested fruit with higher weight, due better sizes, and more dry matter content, with more cell structure, resulting in more yield at the end.

Organic Blueberries in Pots

First Stages and Flowering

Fruit load stage

Harvest Stage

Organic
Plant & Soil
Pro 2™
(Test 1)



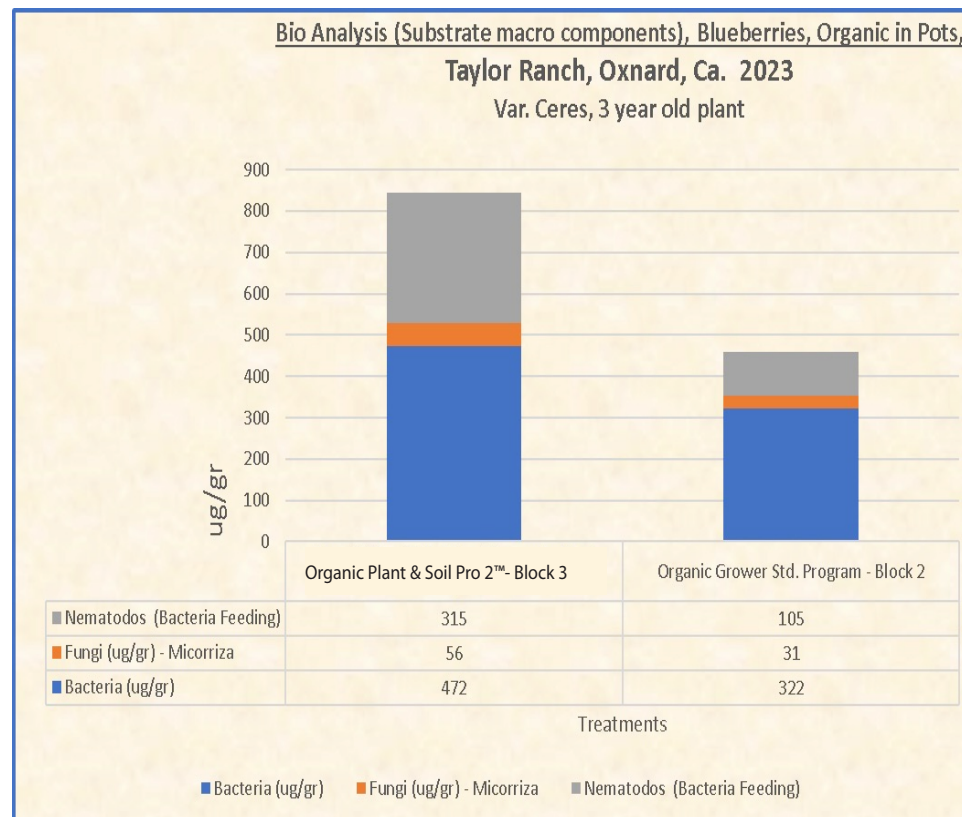
Control
(Test 2)



Comparison of Microbiology of Substrate

Macro Elementos

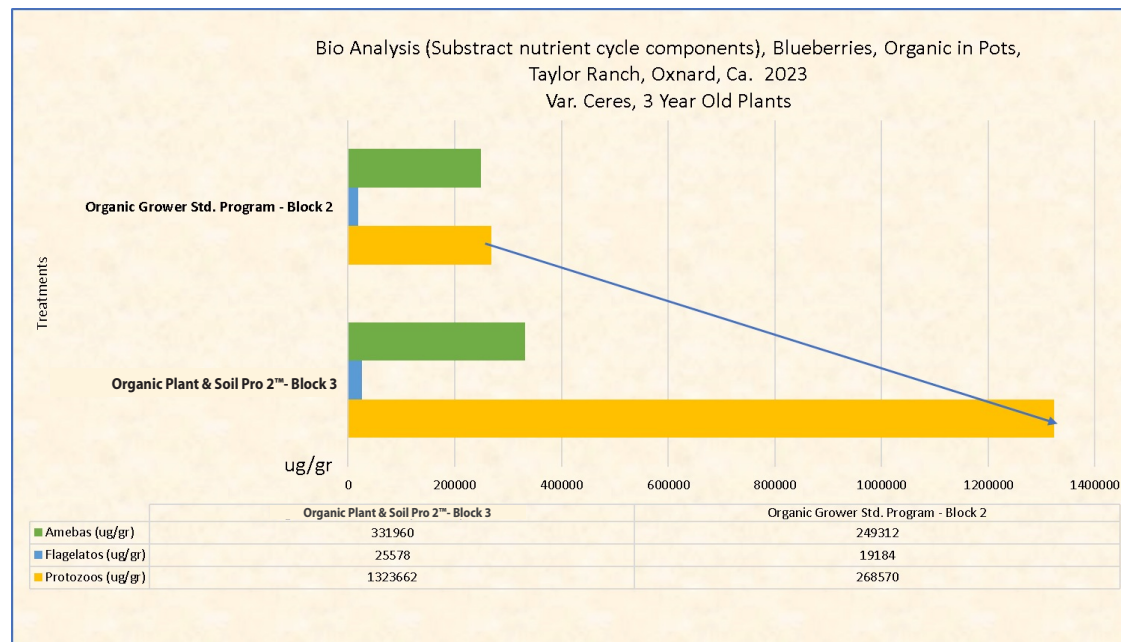
Block No. & Treatment	Bacteria (ug/gr)	Fungi (ug/gr) - Micorriza	Nematodos (Bacteria Feeding)
1 Organic Plant & Soil Pro 2™ - Block 3	472	56	315
2 Organic Grower Std. Program - Block 2	322	31	105



Comparison of Microbiology of Substrate

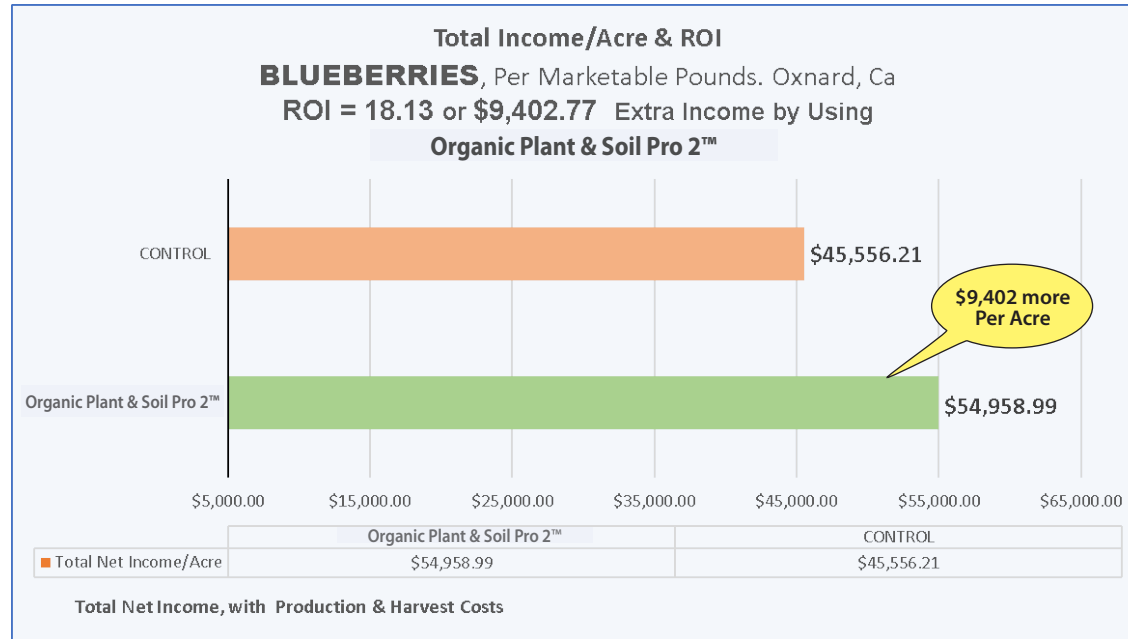
Nutrient Cycling Elements in the substrate

Block No. & Tratamiento	Protozoos (ug/gr)	Flagelatos (ug/gr)	Amebas (ug/gr)
1 Organic Plant & Soil Pro 2™ - Block 3	1323662	25578	331960
2 Organic Grower Std. Program - Block 2	268570	19184	249312



** An increase in more than 30% the Microbiological soil activity favors the nutrient cycle and result in a more efficient absorption rate.

Financial Analysis



Results

1. ROI of 18.13.
2. An extra net income of about \$9,402.77 Per acre.
3. An increase of net income for grower of about 21% more, by implementing the Organic plant & Soil Pro 2™ Program.
4. Organic Plant & Soil Pro 2™ is a High Value Product. With Organic Plant & Soil Pro 2™ you can significantly increase your crop yields and quality. If you base your agricultural decisions on analytical data to maximize yields, and lower your fixed operational costs, Organic Plant & Soil Pro 2™ can help you achieve these goals!

ROI is based on data from the grower.