



## A Citrus Farmer and Field Researcher's Support for EnSoil Algae™

### After 25 years of working in field research

for Bayer Crop Science, I am currently operating a commercial citrus grove and research farm. I have had the opportunity to evaluate the EnSoil Algae™ product in a replicated field trial. We have looked at impacts on the soil microbiology and subsequent fertility by using the most detailed testing methods available: BeCrop DNA analysis, the Haney soil health test, and PLFA. Results have been significant in terms of microbiology changes, nutrient availability in the soil, and tree growth. *Chlorella vulgaris* algae is proving to be a very unique organism that can address plant growth and fertility.

In the last 10 years, regenerative soil research has clearly proven the impact of the soil microbiome on fertility. I am a clear example of growing a high demand crop (particularly micro-nutrients) solely with bio-stimulants and organic fertility. Enlightened Soil could play a significant part in this rapidly expanding segment of the crop nutritional industry.

I whole-heartedly endorse and support their efforts to expand their production facilities which would enable them to supply a wider range of the agricultural industry in the U.S. and do it economically. Production of *Chlorella vulgaris* supports every one of the USDA's objectives for the advancement of American agriculture. Sustainability, climate change, carbon sequestration, and, ultimately, support of the American farmer, are all the result of a movement towards this regenerative practice.

As the evidence is being compiled that human health is unequivocally linked to soil health, companies like Enlightened Soil will emerge as leaders in the evolution of modern agriculture.



Herb Young | Squeeze Citrus LLC



# Squeeze Citrus

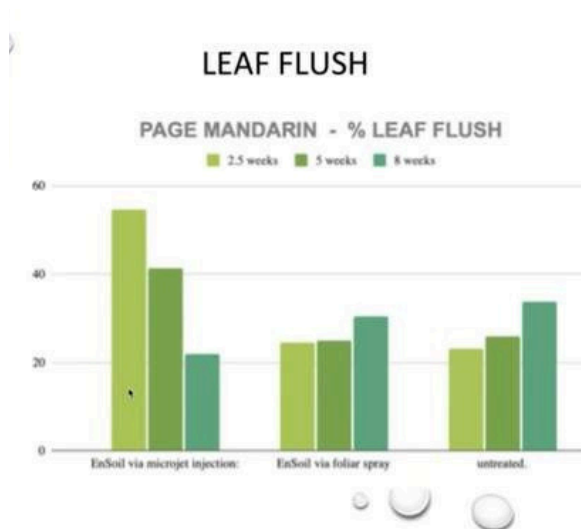
Herb Young - Thomasville, GA

**Herb Young (Squeeze Citrus)** is a small, regenerative citrus grower and researcher from Thomasville, GA that has transformed his land by using cover crops and a pure biological nutrition system. Herb recognized tremendous plant and soil response with application of EnSoil Algae™, confirmed by BeCrop test results.

"For the last two seasons, I've used EnSoil Algae™ as a foundation treatment on my citrus grove. The work we did proved conclusively that it jumpstarts microbial activity. I'm convinced microbes are absolutely a key component of the nutrient burst in my fruit. The Haney test proved that.

I realized the value when on one of my varieties EnSoil Algae™ applied through irrigation stimulated a leaf flush 5 weeks earlier – extremely valuable in citrus where we hope for five flushes a year. This was in a replicated trial. The application is a simple injection through microjet irrigation, monthly between March and October."

"The most significant result from my total regenerative organic practices is nutrient dense fruit. For the first harvest (year three), I selected Page Mandarins and Pink Frost Grapefruit from my grove and picked fruit of the exact variety from a conventional grove. I matched the varieties and the date of picking. I sent samples to a USDA Certified lab for nutrient analysis. The results were beyond anything I could imagine. Across 35 direct comparisons, the average nutrient increase of my citrus was 8 times higher! Eight-fold. These were carotenoids, flavonoids, and vitamins responsible for every healthy function and disease prevention imaginable. The flavonoid hesperidin contributing to brain function and memory was 39X higher in my fruit. While EnSoil Algae™ was not the only contributing factor, it is a part of my program to restore the soil ecosystem and grow incredibly nutritious fruit."



	NUTRIENT	HEALTH BENEFIT	CONVENTIONAL	SQUEEEZE REGENERATIVE
Flavonoids:	TANGERETIN	Cardio health, lower cholesterol	X = none	1 🍊
	NARINGIN	Antioxidant	1 🍊	2 🍊
	NOBILETIN	Anti-inflammatory	X	3 🍊
	NARIRUTIN	Suppresses Cancers, Heart health, Liver health, detox	X	8 🍊 8X
	NEOHESPERIDIN	Anti-inflammatory	X	8 🍊
Carotenoids:	HESPERIDIN	Blood flow, brain cognition, memory, reduce heart disease	1 🍊	39 🍊 39X
	CIS-LYCOPENE	Cancer prevention, antioxidant	1 🍊	1 🍊
	TRANS-LYCOPENE	Antioxidant, highly bioavailable, Heart health	1 🍊	2 🍊 2X
	CIS-BETA-CAROTENE	Eye health and unique antioxidant	1 🍊	3 🍊 3X
	TRANS-BETA-CAROTENE	Most stable form of beta-Carotene	1 🍊	3 🍊 3X
Vitamins:	BETA-CAROTENE	Eye health	1 🍊	5 🍊 5X
	CRYPTOXANTHIN	Boosts Immune system	1 🍊	11 🍊 11X
	RIBOFLAVIN (VITAMIN B2)	Converts food to energy	1 🍊	4 🍊 4X
	THIAMIN (VITAMIN B1)	Healthy nerve function, cognition	1 🍊	1 🍊
	VITAMIN C	Immune function	1 🍊	1 🍊



Through a Haney Soil test, we could clearly see a soil microbe shift as all the available N was converted to amino acids and proteins, the carbon increased, and we got explosive growth. The soil DNA test showed exactly what I saw above ground. It revealed EnSoil Algae™ application opened N, P, and K pathways (increased those microbes,) improved soil quality, and biodiversity. These results convinced me to regularly include EnSoil Algae™.

EnSoil Algae	Untreated	EnSoil Foliar	EnSoil Irrigation injection
Number of microbe Species	626	671	652
Soil Quality			+
Biodiversity			+
N Pathway		+	+
P Pathway		++	++
K Pathway		++	++

