MICROBIAL MATRIX SYSTEMS
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HAZLENUTS

Variety: Jefferson 2013 Trial

4th leaf	22.7 acres	25 rows approx. 5,000 trees
Test Plot	10.9 acres	12 rows
Control	11.8 acres	13 rows

Summary of Yield Data:

Test Plot	Marketable Weight	8,398 lbs total	770 lbs/acre	
Control	Marketable Weight	7,743 lbs total	656 lbs/acre	
	Difference		**114 lbs/acre**	***17.38% increase in yield***

The price paid for Jefferson hazelnuts was $1.44/lb
The Test Plot yielded $164.16 per acre more

Quality Test Data:

Test Plot	2.33% blanks
Control	3.33% blanks
Difference	1.00% *less blanks in Test or 1/3 less*

Hazelnut Sucker Trial 2013

Control **Treated - Bigger Root Mass and Caliper, feeder roots**

Mycorrhizal Results:

Filbert tree roots- Ectomycorrhiza	Total Root tips	Total mycorrhizal tips	Mycorrhiza (%)
4 year old Water Only(Control)	200	0	**0**
4 year old Treated 2x (Test Plot)	400	158	**40**
Jefferson- 5 year old (not treated)	200	0	**0**

Note: Only one type of ectomycorrhizal morphotype was observed in Treated sample. Grayish brown type.

Mycorrhizal colonization of 40% almost doubles root mass providing a better root systems for better establishment, water and nutrient uptake. Mycorrhizae enhance uptake of NPK, micros such as Boron, Zinc as well as Calcium and Magnesium.