



SOIL MICROBE RESTORATION

a MetaGrow™ case study

In a vineyard near Sacramento, we treated a block with MetaGrow, then in two weeks sampled the soil in the treatment and adjacent control blocks.

We analyzed the microbial species with Metagenomics and identified the species composition, populations and functions.

Application: MetaGrow ST at 2 gallons per acre, and MetaGrow MFOOD at 0.5 lbs per acre.

With just one application, after 2 weeks the results were impressive.

Function	Increase versus Control		
Number of Microbe Species		194%	
Nitrogen Fixing Microbes		290%	
Phosphate Solubilizing Microbes		520%	
Successful Colonization Rate	73%		
Siderophores (solubilizing and chelating of Ca, K, Mg, Fe, Mn, Zn, Cu)		370%	
Plant Growth Promoting Rhizome (PGPR)		150%	
Plant Growth Factor Producers		290%	
SAR and ISR (plant immune system activators)	(plant	500+ x	
Chemical Residue Degraders		540 x	
Organic Matter Decomposers		140 x	
Plant Pathogen Composition		93% Reduction	
Anaerobic Microbes		99% Reduction	