Soil Biology Report Performed By:

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Date Observed: 2 -8 -22

Sample Name: pomegranate/garlic back row

Sample Type: Soil

Plants Present/Desired: pomegranate and garlic

Plant Succession: Deciduous Trees

Beneficial Microorganisms

	Recommended Range		Sample Results	
Fungi (ug/g)	675	9,000	11	Low: The fungal biomass is below the recommended minimum level for your plant's stage in succession. Please contact your Soil Biology Consultant.
Standard Deviation			10	Few target organism were present and variability was very high. Precision is very low.
Bacteria (ug/g)	135	900	147	Good: The bacterial biomass is within the recommended range for your plant's stage in succession.
Standard Deviation			20	Distribution of the target organisms in the sample was uniform; variation was small.
Actinobacteria (ug/g)	1	4	0.23	Low: The actinobacterial biomass is below the expected range. This is not a problem.
Standard Deviation			0.25	Few target organism were present and variability was very high. Precision is very low.
F:B Ratio	5:1	100:1	0.07	The F:B ratio is low. Increase fungal biomass or reduce bacterial biomass, and check predators to assess balance. Please contact your Soil Biology Consultant.

	Minimum Value		
Protozoa (Total)	> 10,000	81,520	Good: The number of beneficial protozoa is above the minimum requirement.
Standard Deviation		49,921	Target organisms were present in the sample, but extremely patchy in distribution. Precision is poor.
Flagellate (#/g)	*(See Total)*	40,760	
Standard Deviation		28,822	
Amoebae (#/g)	*(See Total)*	40,760	
Standard Deviation		40,760	

	Nematodes		
Bacterial-feeding (#/g)	200	100	Low: Bacterial-feeding nematodes help keep bacterial populations in balance and enhance nutrient cycling.
Fungal-feeding (#/g)	300	0	None detected: Fungal-feeding nematodes help to release nutrients from fungal hyphae to the plants.
Predatory (#/g)	200	0	None detected: Predatory nematodes help reduce root-feeding nematode numbers.

Detrimental Microorganisms

Disease-Causing Fungi	Maximum Value	Sample Results	
Oomycetes (ug/g)	0	0	None detected: No disease-causing fungi were observed in the sample. Great!
Standard Deviation		0	Distribution of the target organisms in the sample was uniform; variation was small.

Anaerobic Protozoa			
Ciliate (#/g)	0	16,304	Ciliates were detected, but the sample is not necessarily anaerobic, especially if flagellates and amoebae were present in high numbers.
Standard Deviation		36,457	Few target organism were present and variability was very high. Precision is very low.

Nematode			
Root-feeding (#/g)	0	0	None detected: No root-feeding nematodes were observed. Great!

Additional Comments: Fulvic and humic aggregates noted