



Power-Z™
Agricultural Solutions

GWT Power-Z Bio-Organic Soil Conditioner – Case Study Results

Trials were conducted using both organic and conventional growing procedures using different fertilizer options to analyze results.



Cucumber on the left
- without Power-Z

Cucumber on the right
- with Power-Z

Results of Cucumber trial

Trials of seedling plants have shown improvements in primary root development. Studies have resulted in better quality produce (increased vitamin levels) with lowered nitrate levels in produce and faster ripening of crops.

Crop yield improvements have been achieved with more efficient fertilizer usage - and less nutrient leaching.

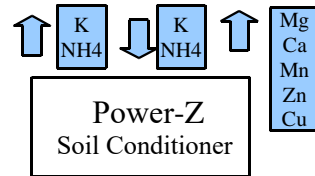
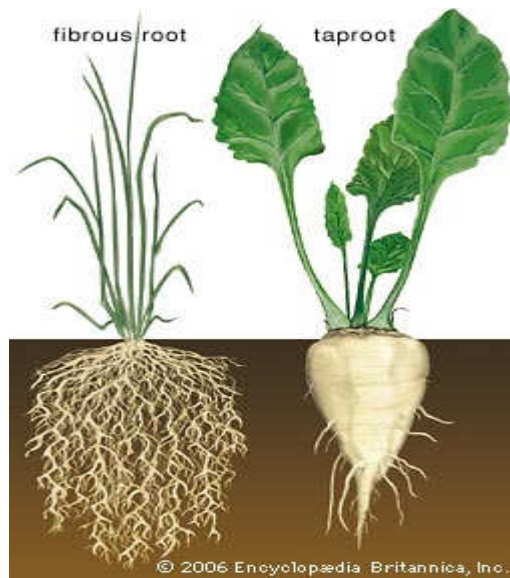
Tomato Trial			
	Control Grower Practice	Control + Agro-Z 1 ton/1 acre *	Yield Increase
Yield (cases/2.5 acre)	3,750	4,125	10% (375 cases/2.5 acre)

✧ *Power-Z was introduced with fertilizer via spreader*

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Power-Z Soil Conditioning Illustration



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GWT Power-Z Soil Conditioner

How to use GWT Power-Z soil conditioner for optimal plant growth

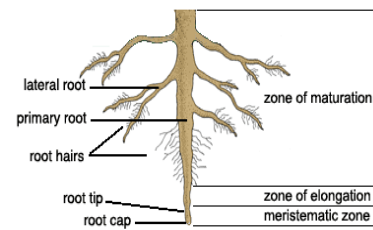


Figure 2. Root Structure

1. a) Spreading of GWT Power-Z to fertilized soil or
b) Spreading of GWT Power-Z with fertilizer as a mixture in the same spreader
2. Reduced risk of volatile losses as Power-Z will soak up free ammonia.
3. Irrigating will wash a part of fertilizer mix into the root zone of plants with additional fertilizer bound in the GWT Power-Z media.
4. The fertilizer contained in the Power-Z media will remain in root zone until it is required by the plant on a controlled release.
5. Reduced fertilizer losses from nutrient leaching which causes water pollution. Lower cost due to extended nutrient release by GWT Power-Z media.
6. Plant soil long term improvements (increase in cation exchange capacity and nutrient retention of soil for optimal growth).