GARLIC TEST –Using MicroSoil® Mexico

The test was conducted at El Rancho in 1997. The following is a 6-month after the use of MicroSoil® and 2)

Soil Analysis:

Soil sample #1 was taken in October MicroSoil® and the planting of the was diluted in 100 (one-hundred)



"Los Rancheros" at Pabellon Ags, Mexico evaluation of 1) soil conditions prior to and the results of yield at harvest.

1996 prior to the application of garlic. Then, 1 (one) liter of MicroSoil® liters of water and applied to each hectare.

The MicroSoil® dilution was applied in conjunction with 80% of the amount of fertilizer normally used prior to planting. Soil sample #2 was taken on May 7, 1997 just prior to harvesting the garlic crop.

SAMPLE		#1	#2	DIFFERENCE	
Organic Matter	0%	0.57	1.45	0.88	
pH		8.15	7.6	0.55	
C.E.C.	ms/cm	0.3	2.7	2.4	
Nitrogen	ppm	15	35	20	
Phosphorus	ppm	31.73	25	6.73	
Potassium	ppm	882.29	180	*	
Calcium/Magnesium	ppm	4080	1225	*	

SOIL ANALYSIS REPORT

What does the soil analysis tell us?

- 1. The organic matter went up 0.88% and supplied nitrogen throughout the growing season.
- 2. Due to the increase in organic matter, the higher pH of 8.15 was reduced by 0.55.
- 3. CEC was elevated by 2.4 (this is substantial).
- 4. The nitrogen rate was elevated by 230%.
- 5. Phosphorus was low and remained low.
- 6. *It is quite apparent from the test results on potassium, calcium and magnesium that these were being tied up in the soils and by using MicroSoil® they were able to be released and used by the crop. In soil sample #2, amounts of these nutrients are now at a more normal rate.

FIELDS	*A	**B	**C			
	Kgs/Ha	Kgs/Ha	Kgs/Ha			
Harvest results	11534.88	15391.86	13164.12			
Difference		3856.98	1629.24			
% Increase in Crop Yield		33%	14%			

GARLIC YIELD AT HARVEST

*Field A is the control plot with normal fertilization. **Fields B & C show MicroSoil® application at a rate of one (1) liter per hectare with a 20% reduction in normal fertilization.

Conclusion:

When MicroSoil® was used with reduced amounts of chemical fertilizers, not only was there a substantially higher crop yield, but the overall condition of the soil was much better due to increased organic matter, a more balanced pH, and a much higher (CEC) cation exchange capacity at harvesting.

Note: Although this was an informal test, we believe that chemical fertilizer use could have been reduced by another 30% and the results still been at least the same as those realized in this test.





