**AGRICOLA GENETICA S.A. DE C.V.**
**TESTS PERFORMED ON POTATOES**
**POTATO GROWERS REGIONAL UNION - MAY 1996**

The product called MicroSoil™ was applied to three (3) parcels of land each of which was owned by three difference producers of the Union. When MicroSoil was applied, no additional fertilizer was used. The parcels were as follows:

A) El Centro Ranch:
Producer: Eng. Cesar Alfonso Pena Calvillo
MicroSoil was applied (1 liter per hectare) in the morning, after the potatoes had been planted. The plants were irrigated that same evening.
**Organic Matter: 0.8** **pH: 6.02** **Cation Exchange: 2.04**

B) Sta Clara Ranch:
Producer: Mr. Juan Carlos Contreras
MicroSoil was applied after the potatoes were planted. The tops and bottoms of the furrows were watered in the morning, and then they was immediately irrigated.
**Organic Matter: 1.1** **pH: 7.04** **Cation Exchange: 1.56**

C) Sta Rosa Ranch:
Producer: Prof. Rosa Ma. Gutierrez Mauricio
MicroSoil was applied after the potato plant has sprouted. The plant, itself, as well as the bottom of the furrows were irrigated. The auxiliary irrigation was immediately used. A lower quality seed was used.
**Organic Matter: 1.16** **pH: 6.64** **Cation Exchange: 2.64**

**OBSERVATIONS AFTER HALF CYCLE:**

The crop appeared to be growing faster, in fact, where the MicroSoil was applied there seemed to be about a ten (10) day difference as compared to the sprouting and size of the rest of the crop. The size of the seeds were the same. Where MicroSoil; was used, the leaves sprouted sooner than those planted at the same time in other plots. In fact, the leaf growth was equal to those planted earlier. This indicates that MicroSoil promotes quicker blooming. Furthermore, the plants appeared to be stronger, healthier and more developed, and the leaves were a darker color.

Prior to the application of MicroSoil, we took soil samples in order to analyze the percentage of organic matter. Soil samples were taken a second time from the same places, 15 to 22 days after MicroSoil had been applied. Even in this short period of time, there was an improvement. (Note: On the plots where MicroSoil was applied, no additional fertilizer was applied, as is normally the case.

**OBSERVATIONS UPON THE COMPLETION OF THE TEST:**

The average cost of fertilizer per hectare is $1400.00. The average cost of applying MicroSoil per hectare is $500.00. The parcels treated with MicroSoil were found to be free of the White Fly.

| RANCH | CROP | ORGANIC MATTER | pH | CATION EXCHANGE | CONTROL | MICROSOIL | T/HA. AD. |
|---|---|---|---|---|---|---|---|
| El Centro | Alfa Potato | 1.3 | 6.64 | 1.28 | 35.720 t/ha | 37.941 t/ha | 2.221 |
| Sta Rosa | Alfa Potato | 2.8 | 8.0 | 0.50 | 42.780 t/ha | 45.120 t/ha | 2.340 |
| Sta Clara | Alfa Potato | ---- | ---- | ---- | 37.830 t/ha | 38.325 t/ha | 0.495 |

The test was performed by: Eng. Jose de Jesus Gloria Juarez
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