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Rice and Maize Tests Carried Out in Killissi, Guinea in Early 2015

Summary of the Tests

Makallo Sarl, the Country Agent for Artemis & Angel Co. Ltd. in Guinea, carried out field tests under the supervision of the Ministry of Agriculture and Livestock in early 2015 to show the benefits of Bio-Plant and Pro-Plant on rice and maize compared to chemical fertilisers. The results were so good that the tests showed that the government could eradicate chemical rice and maize farming throughout Guinea with no reservations. The Field Test Supervisor was very enthusiastic about the results.

In short, even though the soil was not prepared with much organic matter mixed with Bio-Plant, the results were essentially the same as we have seen in other countries, such as Nigeria, Thailand, Malawi, Vietnam, etc. over the years.

- There were fewer leaves than on chemical rice plants, but there was much more grain on the heads. The yield was 43% higher compared to the chemical rice.
- The rice plants had about 20% more roots; hence, the extra yield.
- The costs for the farmers were 65% lower in 100% organic farming compared to the chemical rice test.
- The stems were much thicker than on the chemical rice plants, and too thick for insects to bite through.

Rice farmers who use the bio-fertilisers continuously also observe the following:

- The taste of the rice is sweeter than chemical rice.
- Rice farmers can stop using chemical sprays completely by the second season because the immune system of the rice plants has become stronger as the soil's microbial life is restored. After one or two seasons rice farmers stop using the sprays, though they can stop immediately if they wish to do so.
- There are very few pest problems, if any. Because the bio-fertilizers strengthen the immune system of the rice plants and make the rice crops healthy, and increase the vibration emitted by the rice plants, insects do not show interest in the bio-fertilizer rice fields and go and attack weak, chemical rice fields instead, which emit a lower vibration.
- The quality of the rice is much better than that of chemical rice, and it does not break so easily. The DNA of the rice changes each crop, which results in a higher quality of seed. There is no need for farmers to buy (GMO) seeds and to become dependent on international seed companies for their seeds.
- The farmers are able to sell high quality 100% organic rice at a higher price.
- The soil's beneficial insect life and fertility is restored, and the soil becomes much softer and aerated.

The results in the maize tests in Kilissi produced a 66% higher yield in 100% organic maize farming compared to the chemical maize. Generally, the maize plants had 3-6 cobs per plants compared to the chemical maize, which generally had 2 cobs only.

Below are some photographs of the rice and maize tests.

A Letter from the Agricultural Research Institute of Guinea
Announcing the Success of the Rice and Maize Field Tests

Ministère de L'Agriculture

**INSTITUT DE RECHERCHE
AGRONOMIQUE DE GUINEE**



République de Guinée

Travail – Solidarité

19 MAI 2014

Le Directeur Général

A

Monsieur le Conseiller Juridique
du Ministère de l'Agriculture
- CONAKRY-

N° 172 - 82/ IRAG/ DG/ 2014

Objet : Avis sur la convention de partenariat entre le Ministère de l'Agriculture et la Société MAKALLO SARL

Monsieur,

J'ai l'honneur de vous confirmer que les tests d'efficacité sur les principales cultures notamment le riz et le maïs ont été réalisés avec succès.

En conséquence, je donne un avis favorable pour toutes fins utiles.

Veuillez agréer, Monsieur, l'expression de ma considération distinguée.

Dr Famoï BEAVOGUI

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Some Photographs of the Rice Tests

1. A Sign in Kilissi About the Rice Tests (at the Start of the Tests).



2. Progress of the Rice Tests.



3. The Test Supervisor Talking About the Benefits of the Bio-fertilizers and the Different Effects Compared to the Chemical Control Rice Crop.



4. The Test Supervisor Talking About the Benefits of the Bio-fertilizers and the Different Effects Compared to the Chemical Control Rice Crop.



5. The Test Supervisor Talking About the Benefits of the Bio-fertilizers.



Some Photographs of the Maize Tests

- 1. Representatives from Makallo Sarl Observing One of the Maize Plants Being Grown With the Bio-fertilizers.**



- 2. Most of the Maize Plants Had 3-6 Cobs Per Plant. (2 Cobs Is Usual.)**



3. This Maize Plant Has 6 Cobs On It.



4. This Maize Plant Has 6 Cobs On It.



6. This Maize Plant Has 4 Cobs On It.



7. The Taste of the Maize Was Much Sweeter Than the Chemical Control Maize



- 8. The Test Supervisor Was Very Impressed by the Effects of the Bio-fertilizers on the Maize.**



- 9. The Test Supervisor Explaining the Benefits of the Bio-fertilizers on Maize and the Different Effects Compared to Chemical Treatments.**



10. A Makallo Sarl Representative in Front of a Bio-fertilizer Maize Plant With 6 Cobs.



11. One of the Bio-fertilizer Test Areas With the Maize Plants.

