

Field Trial: Integrated EcoFungi/EcoFlora/EcoSil/EcoFoliar for Rice

Product: EcoFungi/EcoFlora/EcoSil/
EcoFoliar **Product Type:** Integrated
Crop: Rice, var. Fedearroz (F50) **Location:** Guayas, Ecuador

Method of product application:

Soil preparation:

EcoSil (100 ml) was mixed with 1 liter of humic acid (150 grams of dry product with 21% fulvic acid and 50% humic acid) in 10 liters of water and left for 24 hours. The mixture was diluted to 200 liters with water and 10 kilograms of dry silica were blended in. The resulting solution was sprayed over a one-hectare plot using backpack sprayers three days before planting.

Seed treatment:

EcoFungi (0.5 kg), EcoSil (10 ml) and humic acid (0.5 liters) were diluted in 10 liters of water. The solution left for 12 to 24 hours was sprayed over 200 lbs of seed which was previously soaked in water for 24 hours. Germination of rice seed takes an average of 5 to 10 days. With EcoFungi - EcoSil the germination process is achieved in 4 to 6 days.

First application of EcoFlora:

EcoFlora (0.5 kg), Ecosil (10 ml), humic acids (1 liter) were mixed in 10 liters of water. The blend was left for 3 to 6 hours and then diluted again to 200 liters with water. Solid silica (1 kg) was added to the solution and the final product was sprayed over a one-hectare plot. This application was carried out two weeks after planting.

Weed and insect control:

EcoFoliar (0.5 liter), EcoSil (100 ml) and solid silica (1 kg) were mixed in 200 liters of tap water and sprayed over the foliage of one hectare plot, 20 days after planting.

Edaphic fertilization:

Urea (75 kg), potassium muriate (50 kg) and solid silica (1 kg) were blended and applied to the soil 25 and 40 days after planting. A third edaphic fertilization was carried out 60 days after planting with urea (100 kg), potassium muriate (50 kg) and solid silica (1 kg).

Questions or Concerns?

EcoMicrobials, LLC.

2000 North Bayshore Drive, Suite 205, Miami, FL 33137

Ph. +1 (305) 420-6633 Fx. +1 (305) 572-9020

Email Info@EcoMicrobials.com

Or visit us on the Web at <http://www.EcoMicrobials.com>

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Foliar fertilization:

EcoSil (100 ml) and humic acid (1 liter) were mixed in 10 liters of water, left for 24 hours, diluted to 200 liters with tap water, blended with solid silica (1 kg) and applied using a backpack sprayer. Foliar fertilization was carried out 40 and 60 days after planting. A third foliar fertilization was carried out 85 days after planting using the same components, except that solid silica was applied at a rate of 2 kg.

Second application of EcoFlora and insect control:

EcoFlora (0.5 kg), EcoSil (10 ml) and humic acids (1 liter) were mixed in 10 liters of water and left for 3 to 6 hours. The solution was diluted with water to a volume of 200 liters. EcoFoliar (0.5 liter) and EcoSil (90 ml) were added to the blend and the resulting solution was sprayed 70 days after planting.

Results:

Mr. Baculima, owner of the farm shows the difference in root systems of a plant grown with EcoMicrobials' products and a control plant grown by traditional chemical fertilizers.

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Close up of rice plants ready for harvest. The straight leaves denote vigor of plants and contrast with the heavy seeds that bend the stems.

Production of Rice in Control (tons/ha)	Production of Rice with EcoMicrobials (tons/ha)	% Increase
4.08	8.8	115

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