

E R G O F I T O I N A C T I O N

Give Nature What Nature Wants

Rice



ERGOFITO

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RICE:

Rice is the seed of the monocot plants *Oryza sativa* (Asian rice) or *Oryza glaberrima* (African rice). As a cereal grain, it is the most widely consumed staple food for a large part of the world's human population, especially in Asia. It is the grain with the second-highest worldwide production, after corn, according to data for 2010.

Since a large portion of maize crops are grown for purposes other than human consumption, rice is the most important grain with regard to human nutrition and caloric intake, providing more than one fifth of the calories consumed worldwide by humans.

EVALUATING PLANT DISEASE PROBLEMS IN RICE PRODUCTION:

One of the biggest problems of rice cultivation is controlling the various diseases that reduce crop yields. To curb these diseases requires correct identification, a good understanding of the mechanisms by which pathogens spread, and reliable information about management practices and chemical controls.

While much is known about different rice diseases, knowledge of their variable effects on yields from one site to another is often lacking.

The list the encountered problems in growing rice is not constructive; however there is a common source for most of the said problems, which is lack of balanced micro-organisms.

One of the major attacks is induced by the application of Glyphosate and/or Glufosinate which has been found to reduce crop yields, burn plants, is responsible for plant deformation of growing points on rice plants as found by the Mississippi Rice Council in the United States.

ERGOFITO IN RICE FIELDS/PADDIES:

Rice like all crops require a healthy rhizosphere, which is provided by balanced microbial activity and humus in soil. Furthermore in the case where rice is cultivated in paddies, the health of the water has to be maintained as well as the health of the soil. Correct microbial activity beneficially addresses both the soil and water. (Please refer to **Ergofito** benefits documentation)

In a healthy rice paddy, it is generally accepted that the water used for irrigation is of an inferior quality to that of the water that drains off the rice paddy. This proved that the field acts as a filter over and above its growth function.

During several tests it avers that based on a Principal Component Analysis (PCA) technique, that coliforms, heat resistant coliforms and pH. are higher in the input water than the output water.

The results confirm the ability of paddy rice field to filter out some of the chemicals and coliforms from the irrigation water as it passes through the agro ecosystem.

The necessity of strong microbial activity is vital, as decomposition must take place immediately to ensure an increase in humus content and the elimination of all unwanted or unnecessary matter.

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DOSAGE:

Immediately after harvest, apply the following:

BIO AGENT	QUANTITY	AREA
Ergostart Bio	125 Kg	Per Hectare

Following application of the **Ergostart Bio**, wait 15 days prior seeding or transplanting. The above is applied with sufficient water, generally diluted 50:1, (50 liters of water per Kg of product).

Ergostart Bio will immediately start decomposing all inert organic matter into plant food. More important it will de-mineralize any accumulation in the rhizosphere that is and has suffocated the soil. It will start by converting all of the above into humus, thus rejuvenating tired soils and allow normal and healthy roots development.

After ensuring that the soil has all the required minerals, trace elements, correct Ph. and its fertilization, apply **Ergofito Universal Plus** in the following manner:

FIRST APPLICATION:

BIO AGENT	WHEN	QUANTITY
Ergofito Universal Plus	When Plant is 10cm High	5 Kg Per Hectare

SECOND APPLICATION:

BIO AGENT	WHEN	QUANTITY
Ergofito Universal Plus	10 Days Later	5 Kg Per Hectare

Apply the above to either the soil or as foliar application, mix **Ergofito Universal Plus** with water at a minimum ratio of 1:200 (1Kg Product to 200 Liters water)



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