NitroStim

Microbial growth biostimulant

The alternative way for the fertilization of **rice**

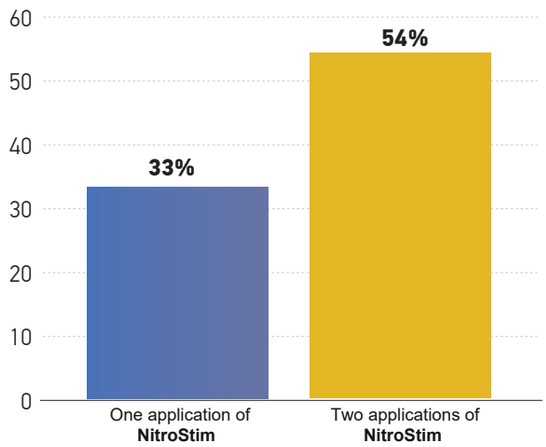
After a systematic scientific research by **HUMOFERT** in cooperation with the **Agricultural University of Athens**, we can now suggest an alternative fertilization way for cotton by **HUMOFERT**, based on the innovative biotechnology product **NitroStim**.

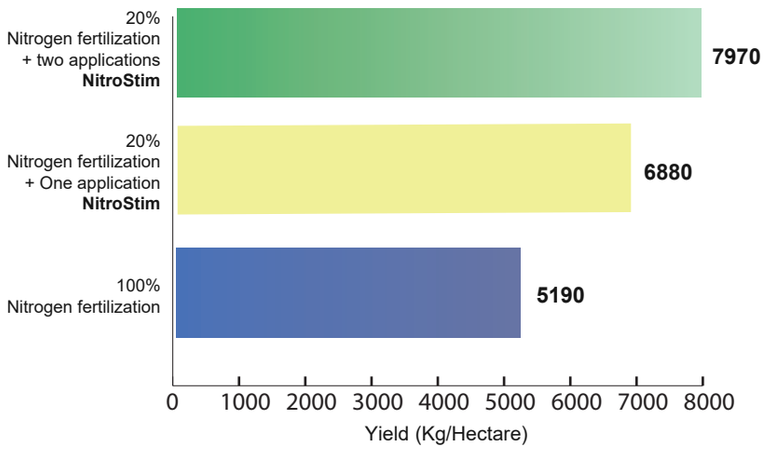
With just one foliar application of **NitroStim** at the stage of 15-20 cm the following benefits have been observed :

- Reduction of Nitrogen fertilization by 80%
- Yield increase **by 33%**
- Impressive weed reduction
- Minimization of the environmental footprint of the cultivation

With a second foliar application of **NitroStim** fifteen days after the first one, even better results were observed:

- Yield increase **by 54%**





The application of **NitroStim** along with just 20% of the total Nitrogen fertilization greatly increased the yield, in comparison with the control on which there was application of 100% Nitrogen fertilization without **NitroStim**

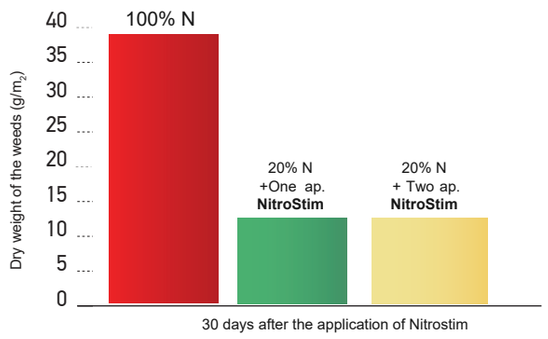
The following results were observed after field trials on rice cultivation (Oryza sativa) done under the supervision of professors at the Agricultural University of Athens.

LOCATION
Katochi Mesolongion, Aitoloakarnania
SPECIES
Rice (Oryza sativa)
YEAR
2021-2022
TREATMENTS
Control: Application of the typical dosage of Nitrogen fertilizers (100% N) along with chemical herbicides
Applications:
One application of the biostimulant NitroStim at a rate of 5L per Hectare, along with only 20% of the usual Nitrogen fertilization (20%N + Nitrostim) and chemical herbicides, when the plants had a height of approximately 15-20 cm.
Two applications of the biostimulant NitroStim along with 20% of the usual total dosage of Nitrogen (20%N + Nitrostim) along with chemical herbicide. The first application was done at a rate of 5L per Hectare, when plants were approximately 15-20 cm high. The second application was done with a dosage of 5L per Hectare, fifteen days after the first one.

Weed reduction

A great achievement was the weed control, which was a result of:

- The continuous and stable growth of the crop, due to **NitroStim**
- Reduced Nitrogen fertilization, which limits the growth of the weeds



*The measurements took place 30 days after the application of **NitroStim**. The reduction of weeds reached the impressive percentage of 79%, when **Nitrostim** was applied.*

APPLICATION METHOD:

First application: Growth stage at 15 cm. Foliar spraying of **Nitrostim** at a rate of 5L per hectare

Second application: Foliar spraying of **Nitrostim** at a rate of 5L per hectare 15 days after the first application

The impressive increase of the yield is a result of the activity of the beneficial endophytic Nitrogen fixing bacteria contained in **NitroStim** which:

- Bind atmospheric Nitrogenin the leaves and transform it to an assimilable form
- Produce plant hormones
- Increase the nutrient uptake from the leaves

NitroStim:

- Brings high yield with low cost
- Limits the use of Nitrogen fertilizers
- Reduces weeds
- Contributes to the reduction of Nitrate pollution of the environment caused by the extensive application of Nitrogen fertilizers

Produced by
HUMOFERT
Ermou 1 & Theotokopoulou, 144 52 Metamorphosis
Tel.: 210 284 5891 Fax.: 210 281 7971
Web Site: www.humofert.gr E-mail: info@humofert.gr