

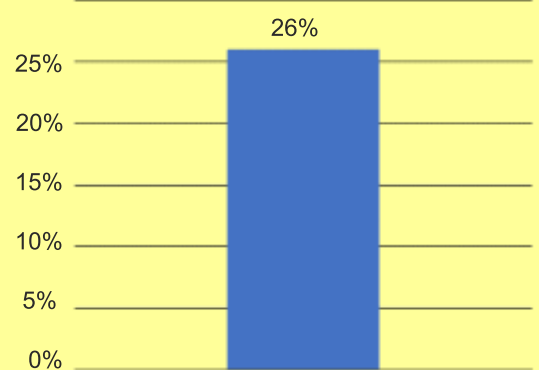
The alternative way of maize nutrition

After a systematic scientific research of **HUMOFERT** in collaboration with the Agricultural University of Athens, we are now able to present to you the alternative fertilization proposal of **HUMOFERT** for maize, based on the innovative biotechnology product **NitroStim**. With a single foliar application of **NitroStim** at the growth stage of 15-20 cm, the following results are achieved:

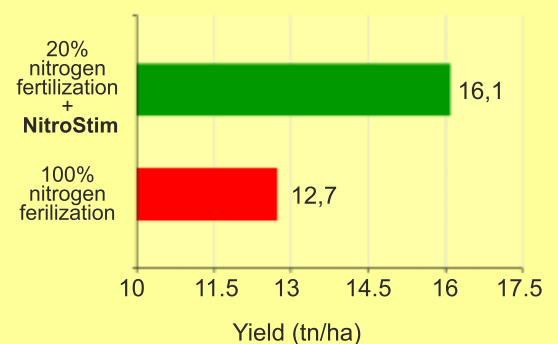
- Reduction of total nitrogen fertilization by 80%
- Yield increase by 26%
- Quality improvement (proteins, oils, starch)
- Income increase by 39%
- Reduction of weeds
- Minimization of the environmental footprint of the crop

Yield increase

Yield increase as a result of **NitroStim** application



The application of **NitroStim** with only 20% of the total nitrogen fertilization significantly increased yield in comparison with the application of 100% of the total nitrogen fertilization without **NitroStim**.



NitroStim

The following results were obtained after a field experiment on maize crop (*Zea mays L.*) was conducted under the supervision of the professors of the Agricultural University of Athens, as part of a research project.

LOCATION

Agrinio, Greece

CROP

Maize (*Zea mays L.*)

YEAR

2020-2021

TREATMENTS

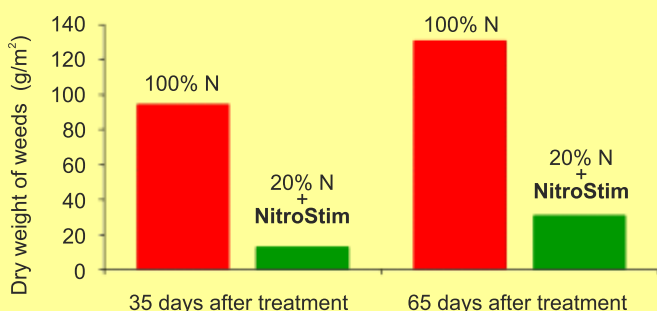
Control: application of the recommended dose of total nitrogen fertilization (100% N) with chemical herbicide

Treatment: application of the biostimulant **NitroStim** at a dose of 5L per hectare, with 20% of the recommended dose of total nitrogen fertilization (20% N + Nitrostim) along with chemical herbicide, when the plants were at a height of 15-20 cm

Weed reduction

An important component of the crop's success was also the effective control of weeds due to:

- The fast and continuous growth of the crop, thanks to **NitroStim**
- The reduced nitrogen fertilization, which limits the nutrition of weeds



The measurements were taken 35 days and 65 weeks after the application of **NitroStim**. The observed reduction in weeds was initially 86% (35 days) and then 76% (65 days).

The dramatic increase in crop yield is the result of the action of the beneficial endophytic nitrogen-fixing bacteria contained in **NitroStim** which:

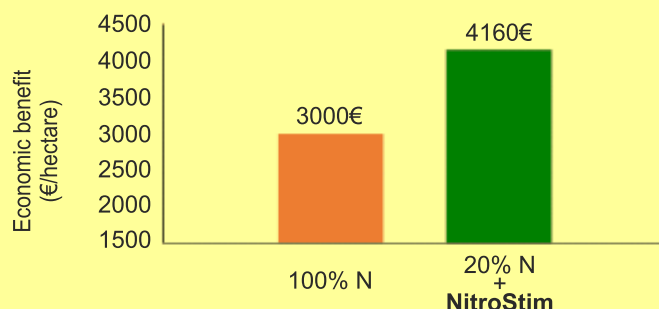
- Bind atmospheric nitrogen in the plants' leaves and convert it into a readily assimilable form
- Produce intracellularly plant-hormones
- Increase the nutrient intake by the foliage

METHOD OF APPLICATION

Growth stage 15-20 cm.

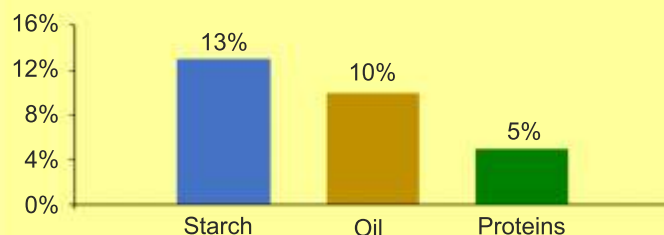
5 L per hectare

Increase in income

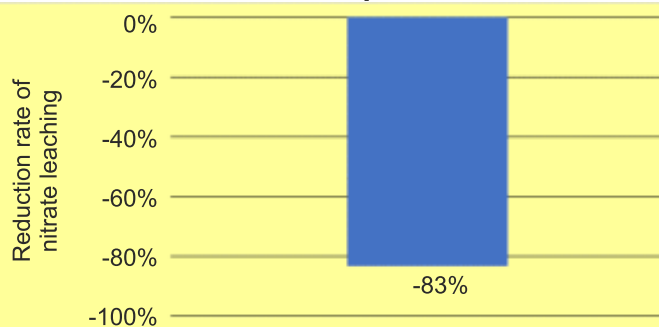


The increased crop yield resulted in a 39% increase in revenue.

Increase of the qualitative characteristics by using NitroStim



Environmental protection



Reduced use of nitrogen fertilizers not only has economic benefits, but also a positive effect on the environment. With the application of **NitroStim** the leaching of nitrates was reduced by 83%, thus protecting the soil and groundwater.



Produced by

HUMOFERT



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Use **NitroStim** to:

- Achieve higher yields and quality at lower costs
- Limit the use of nitrogen fertilizers
- Reduce weeds
- Help reduce the pollution of the environment by nitrates from the application of chemical fertilizers