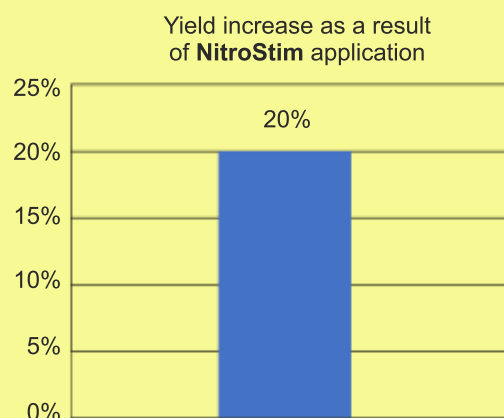


# The alternative way of wheat nutrition

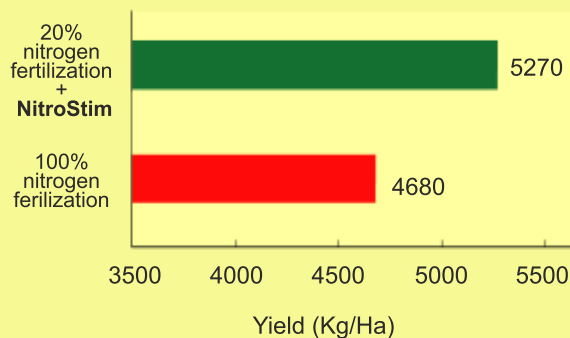
After a systematic scientific research of **HUMOFERT** in collaboration with the Agricultural University of Athens, we are now able to present to you the alternative fertilization proposal of **HUMOFERT** for cereals, based on the innovative biotechnology product **NitroStim**. With a single foliar application of **NitroStim** at the growth stage of 10-15 cm, the following results are achieved:

- Reduction of total nitrogen fertilization by 80%
- Yield increase by 20%
- Income increase by 26%
- Reduction of weeds by 67%
- Minimization of the environmental footprint of the crop

## Yield increase



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 durum wheat crop (*Triticum durum Desf.*) was conducted under the supervision of the professors of the Agricultural University of Athens, as part of a research project.

#### LOCATION

Phthiotis, Greece

#### CROP

Durum wheat (*Triticum durum Desf.*)

#### YEAR

2020-2021

#### TREATMENTS

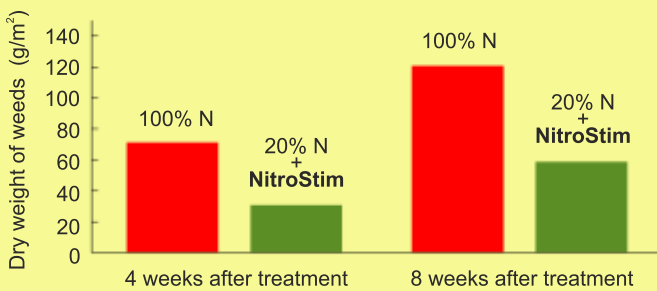
**Control:** application of the recommended dose of total nitrogen fertilization (100% N) with chemical herbicide

**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 4 weeks and 8 weeks after the application of **NitroStim**. The observed reduction in weeds was initially 62% (4 weeks) and then 67% (8 weeks).

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

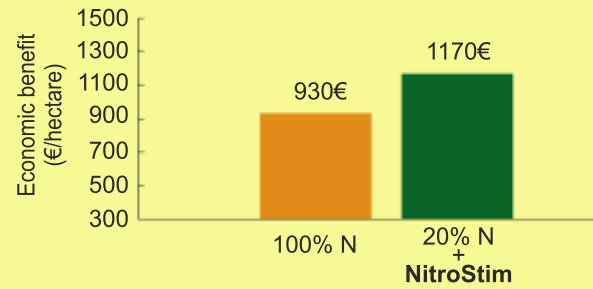
- Bind atmospheric nitrogen in the plants' leaves and convert it into a readily assimilable form
- Produce intracellularly plant-hormones
- Increase the nutrient intake by the foliage

#### METHOD OF APPLICATION

Growth stage 10-20 cm.

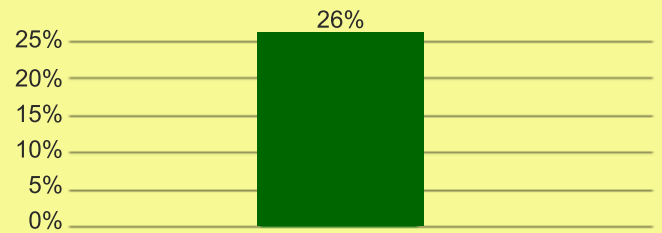
5 L per hectare

#### Increase in income

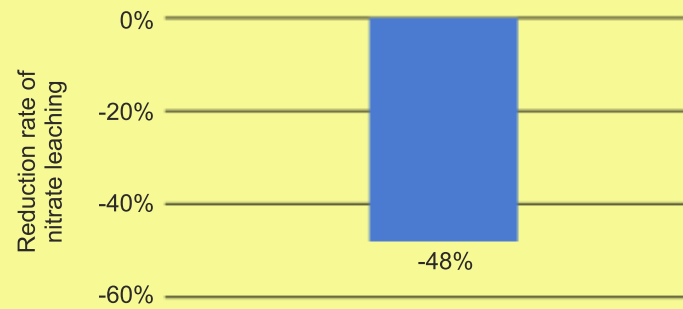


The increased crop yield resulted in a 21% increase in revenue.

#### Increase in revenue 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 48%, thus protecting the soil and groundwater.



Produced by

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Use **NitroStim** to:

- Achieve higher yields 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