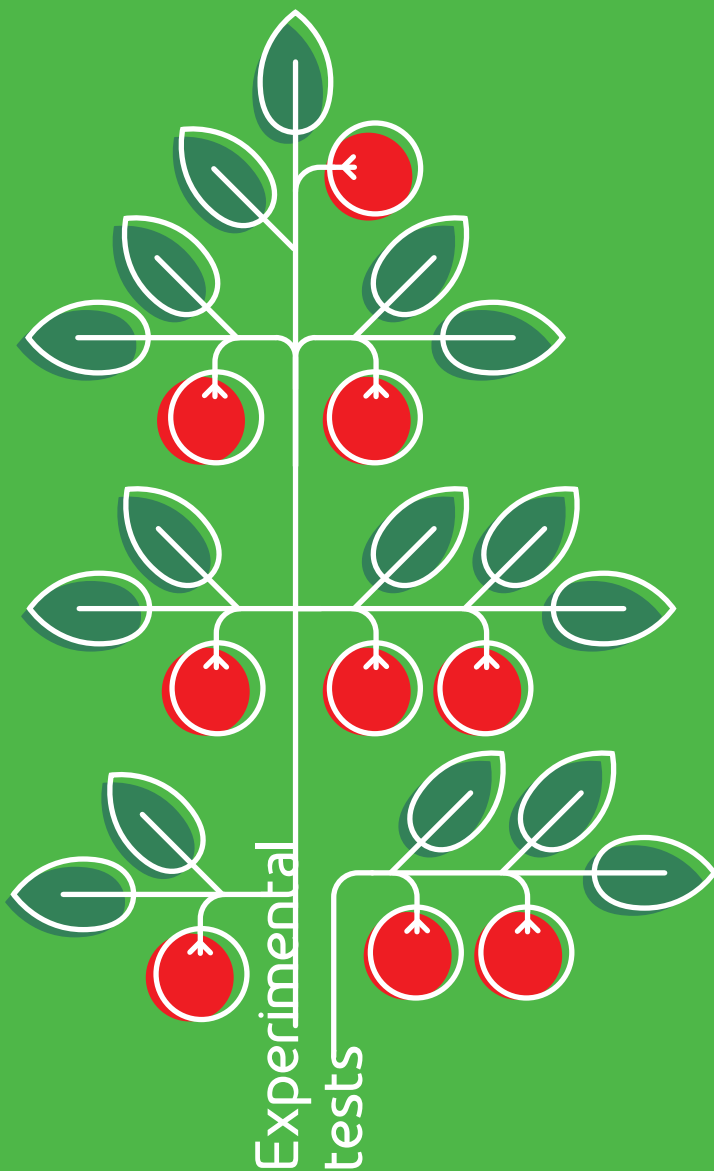


# NEEM CARE FL

BETTER ROOTING IN BIOTIC  
STRESS CONDITIONS



hydro fert



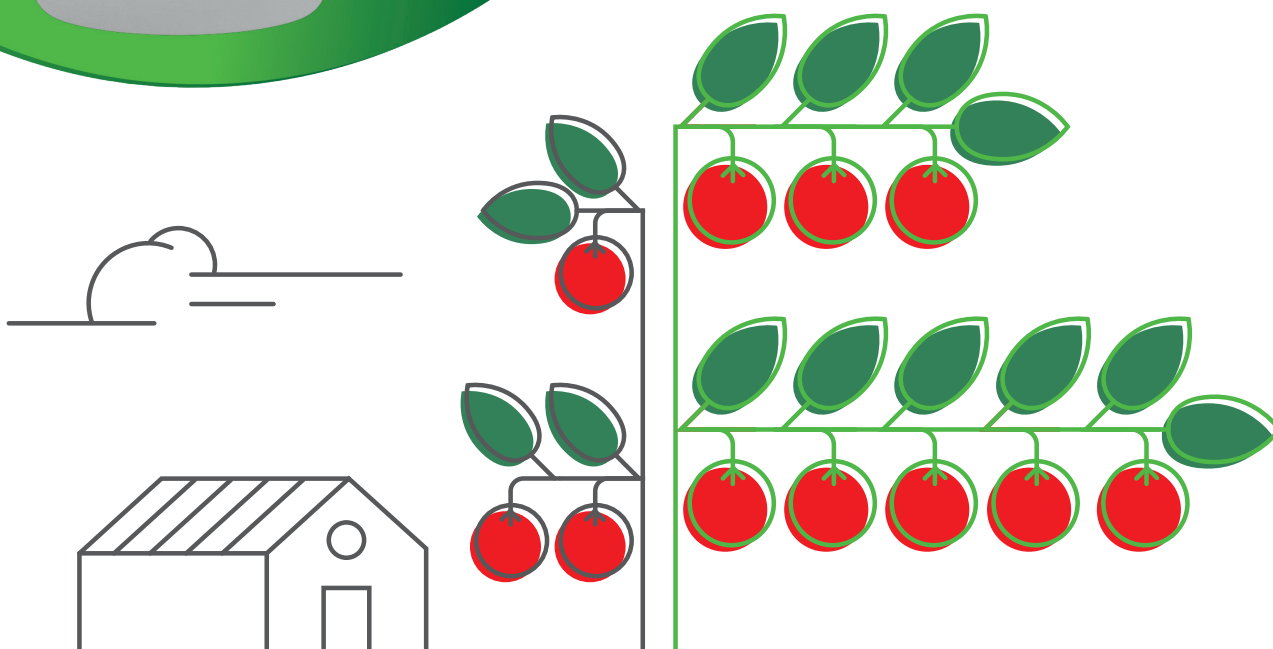
# Neem Care FL

|                                                                                      |                                                                                            |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
|  1L |  5 - 20 L |
|     |  BIO      |
|                                                                                      |  RS      |

Mix of micronutrients manganese (Mn) EDTA and zinc (Zn) EDTA, containing vegetal extracts with biostimulant and antistress activities. It is particularly suitable for the cultivation of "tired" lands with nematodes. Allowed in organic agriculture.

## BENEFITS

- stronger resistance against biotic stress
- bigger roots growth
- better yields in case of tired lands

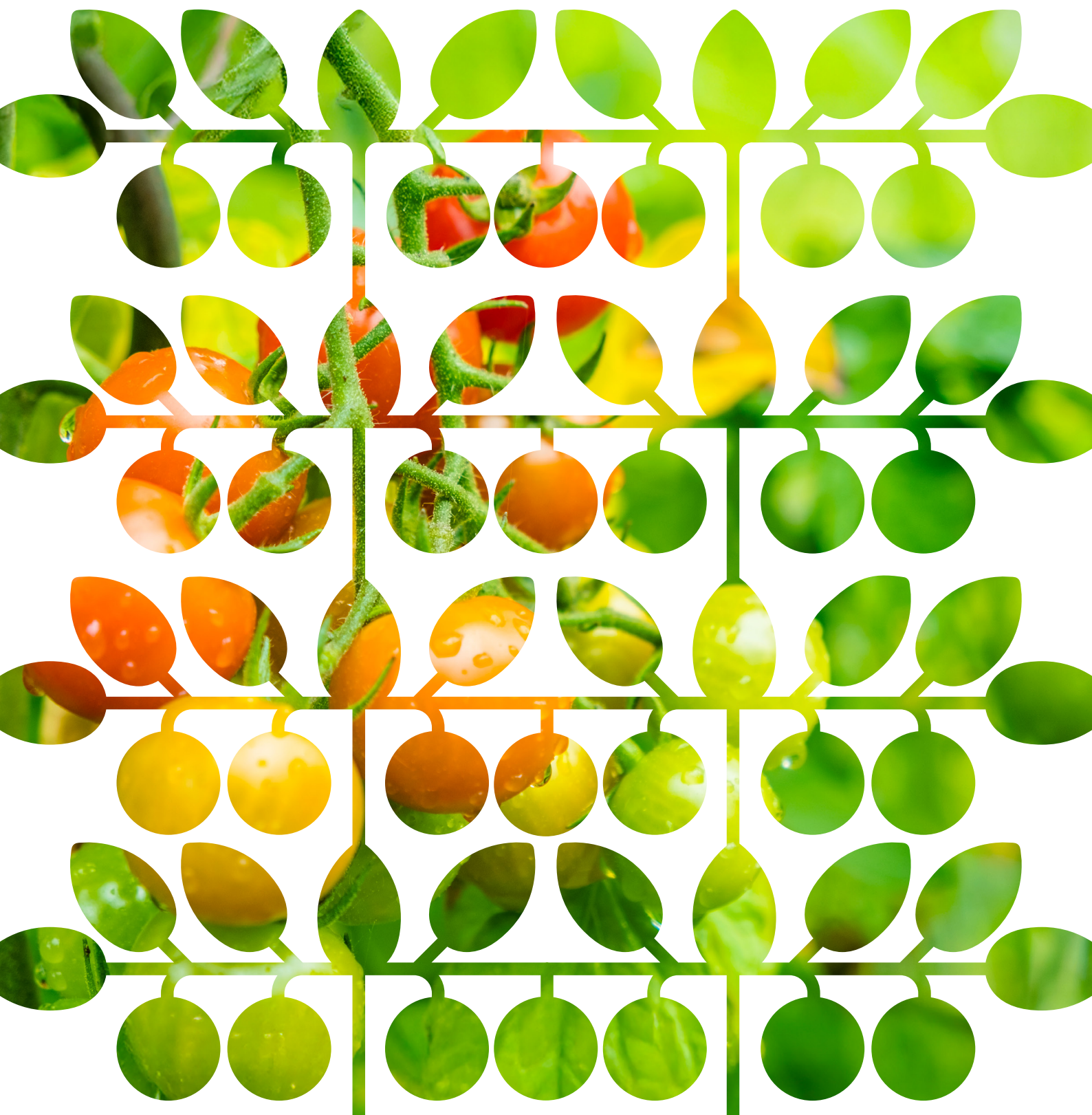


Neem Care FL is a mix of micronutrients containing 30% of vegetal extracts, specific for root development. Its application enhances a higher number of bigger roots as well of root hairs, stronger and able to avoid all problems related to the cultivation of tired lands.

Neem Care FL helps the production of endogenous defences and improves the capacity to react to external stress. It should be applied in spring and autumn, and in any case when the soil temperature is optimal for root development.

# The best ally to help tired lands

Experimental tests show that the application of Neem Care FL in case of "tired" lands stimulates a bigger root volume and also higher vigour, yields and fresh weight of fruits, thus improving the phytosanitary status of crops. Plants with a healthy and developed root system will be able to better absorb nutrients in a more effective way and act against possible diseases of roots.

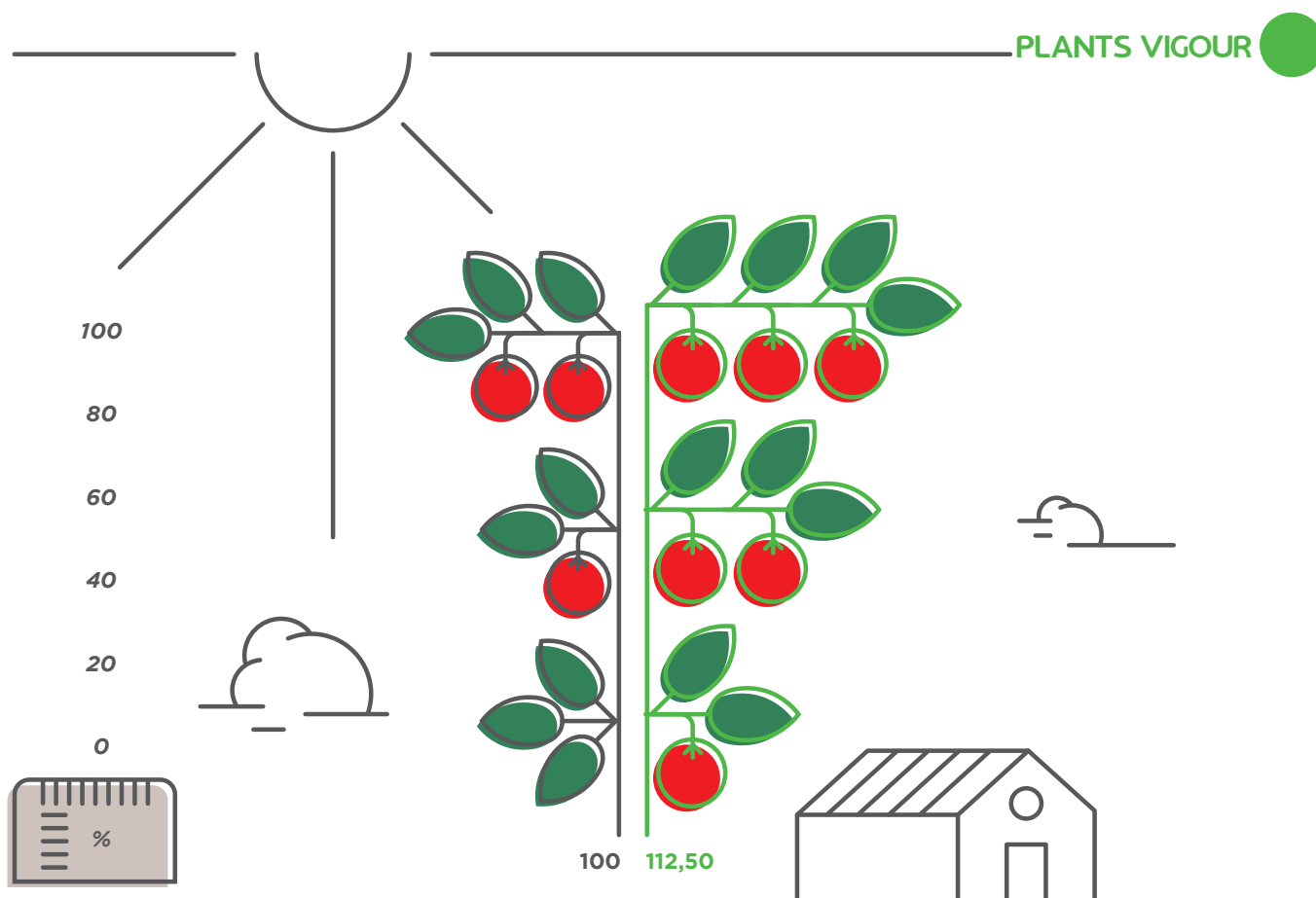


# Tomato crops in open fields



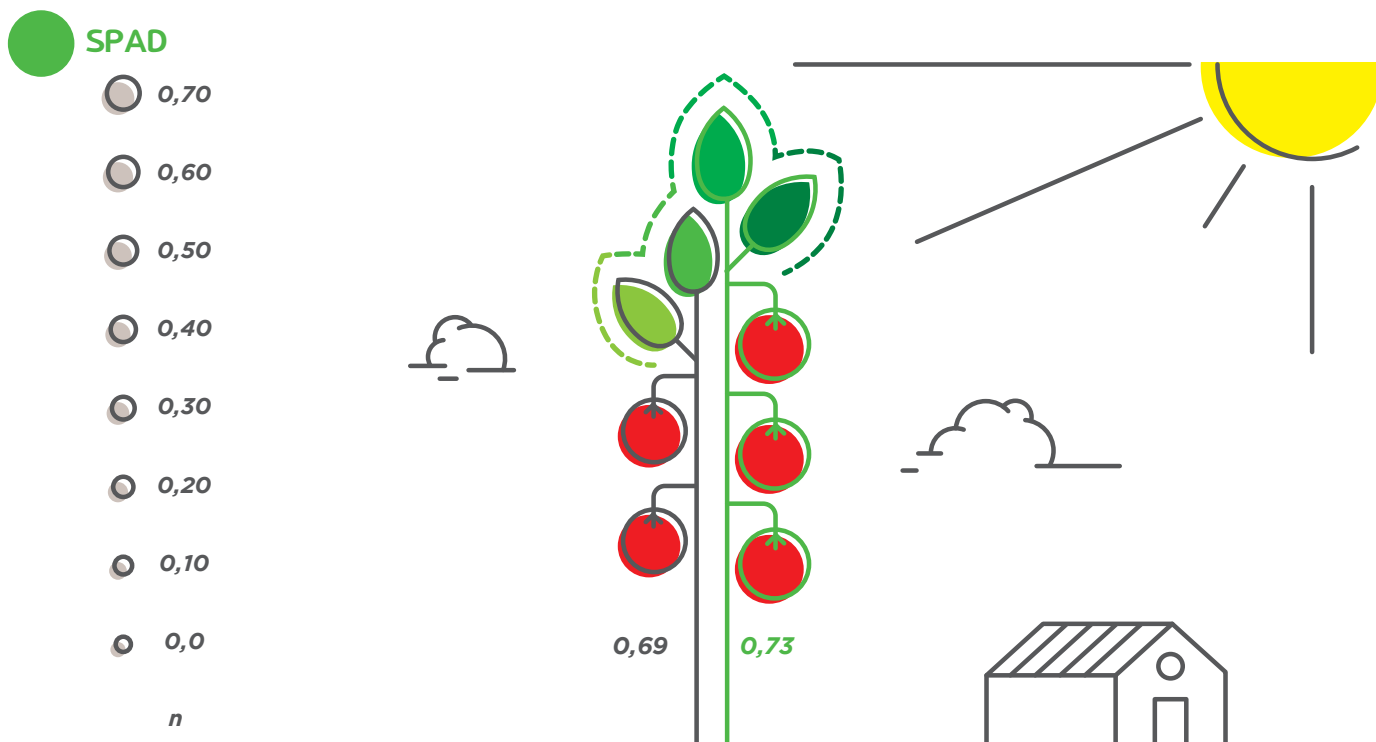
## MATERIALS AND METHODS

|                                 |                                                                          |
|---------------------------------|--------------------------------------------------------------------------|
| <b>Species</b>                  | <i>Solanum lycopersicum</i> var. HEINZ 1538                              |
| <b>Experimental design</b>      | Fully randomized blocks                                                  |
| <b>Test duration</b>            | 14 weeks: 13/05/2019 (transplanting) - 23/08/2019 (end of trial)         |
| <b>Temperature</b>              | According to the climate trend in the countryside of Trinitapoli (Italy) |
| <b>Relative humidity</b>        | According to the climate trend in the countryside of Trinitapoli (Italy) |
| <b>Light</b>                    | Typical of the trial period                                              |
| <b>Substratum</b>               | Sandy and loamy soil                                                     |
| <b>Method of administration</b> | Fertigation                                                              |
| <b>Compared treatments</b>      | <b>Control</b> and <b>Neem Care FL (20 l/ha)</b>                         |
| <b>Number of applications</b>   | 3 (flowering, fruit setting, fruit growth)                               |



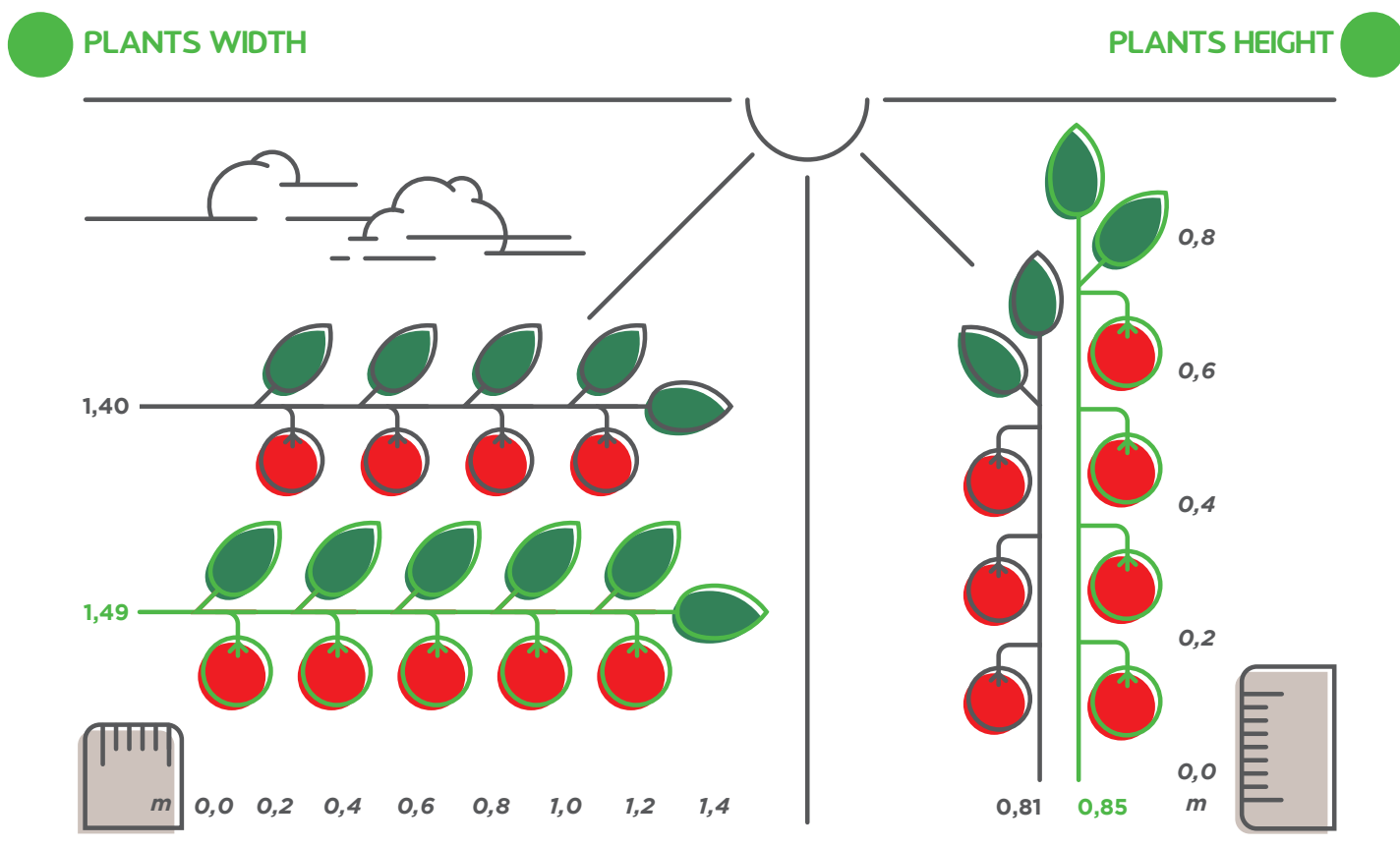
**FIG 1** - Average vigour of plants in two compared treatments.

Neem Care FL increases the average vigour compared to the untreated control, thanks to its content of micronutrients and vegetal extracts, which favour the root development, thus getting a wider soil exploration.



**FIG 2** - Average SPAD values in two compared treatments.

Neem Care FL improves the photosynthetic efficiency of leaves. This results in an increased SPAD value compared to the untreated control, thus resulting in an improved phytosanitary status.



**FIG 3** - Average width and height of plants in two compared treatments.

Neem Care FL increases the height and width of plants compared to the untreated control. Such results confirm that a wider root system proves a higher vigour of the vegetative part of plants.

## ROOTS WIDTH

## ROOTS LENGHT

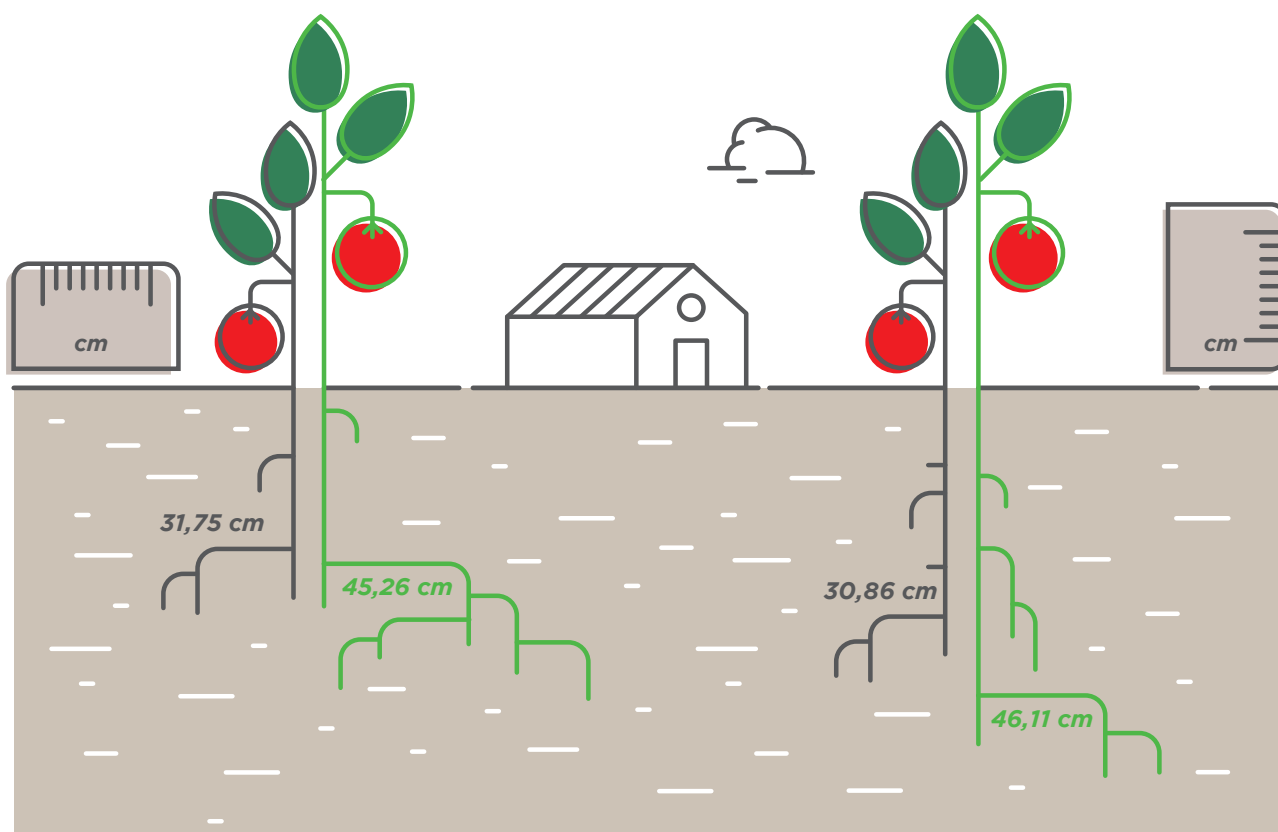


FIG 4 - Average width and lenght of roots in two compared treatments.

## ROOTS FRESH WEIGHT

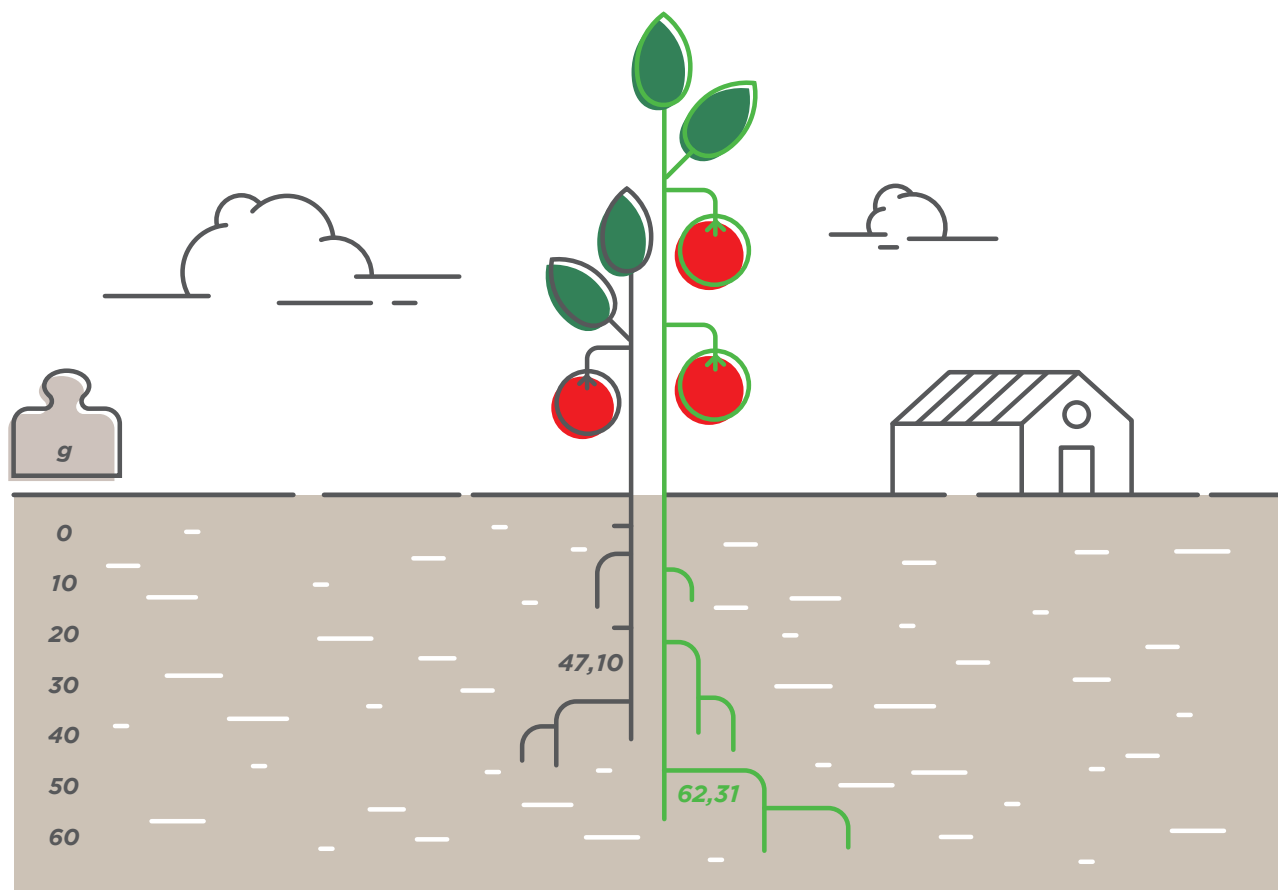
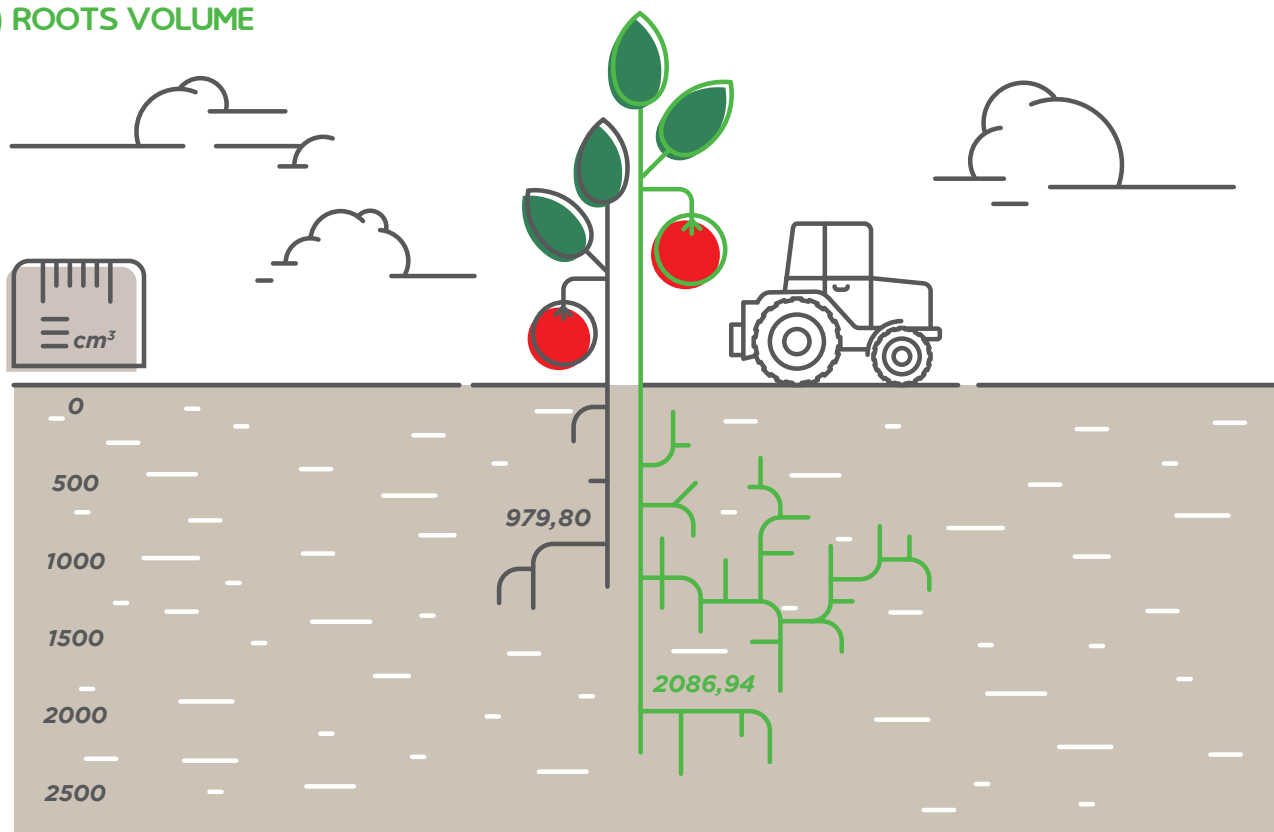


FIG 5 - Fresh weight of roots in two compared treatments.

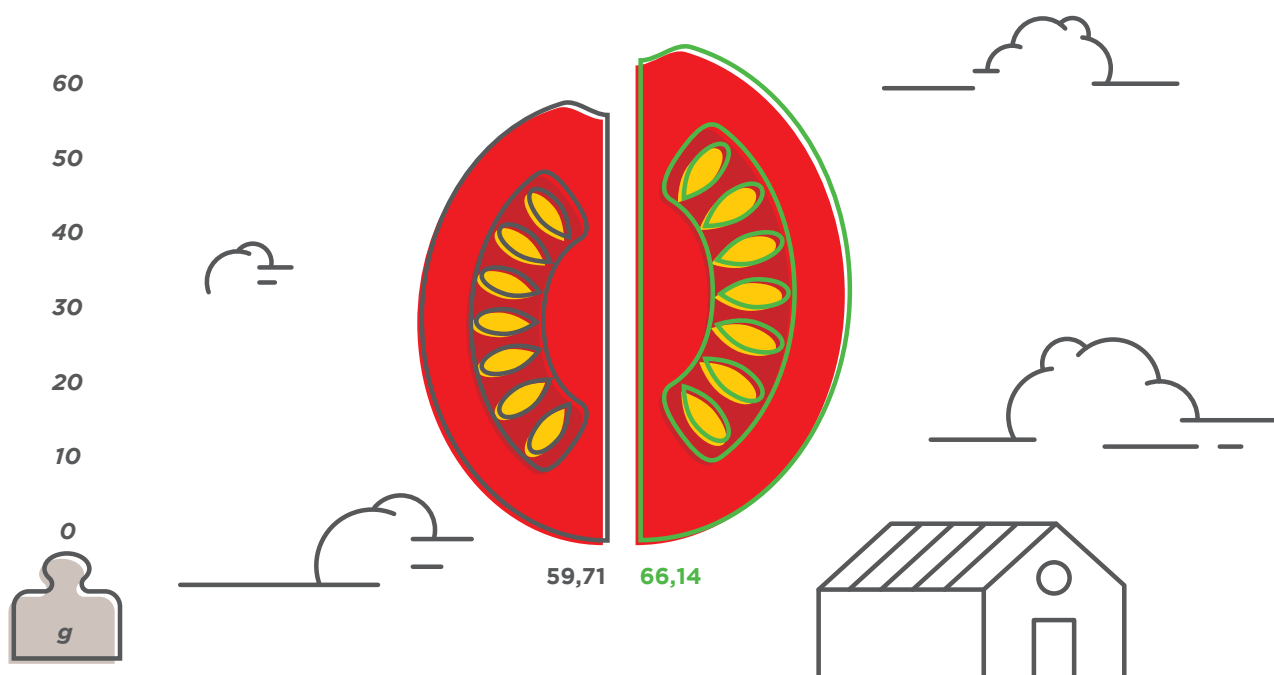
## ROOTS VOLUME



**FIG 6** - Average volume of roots in two compared treatments.

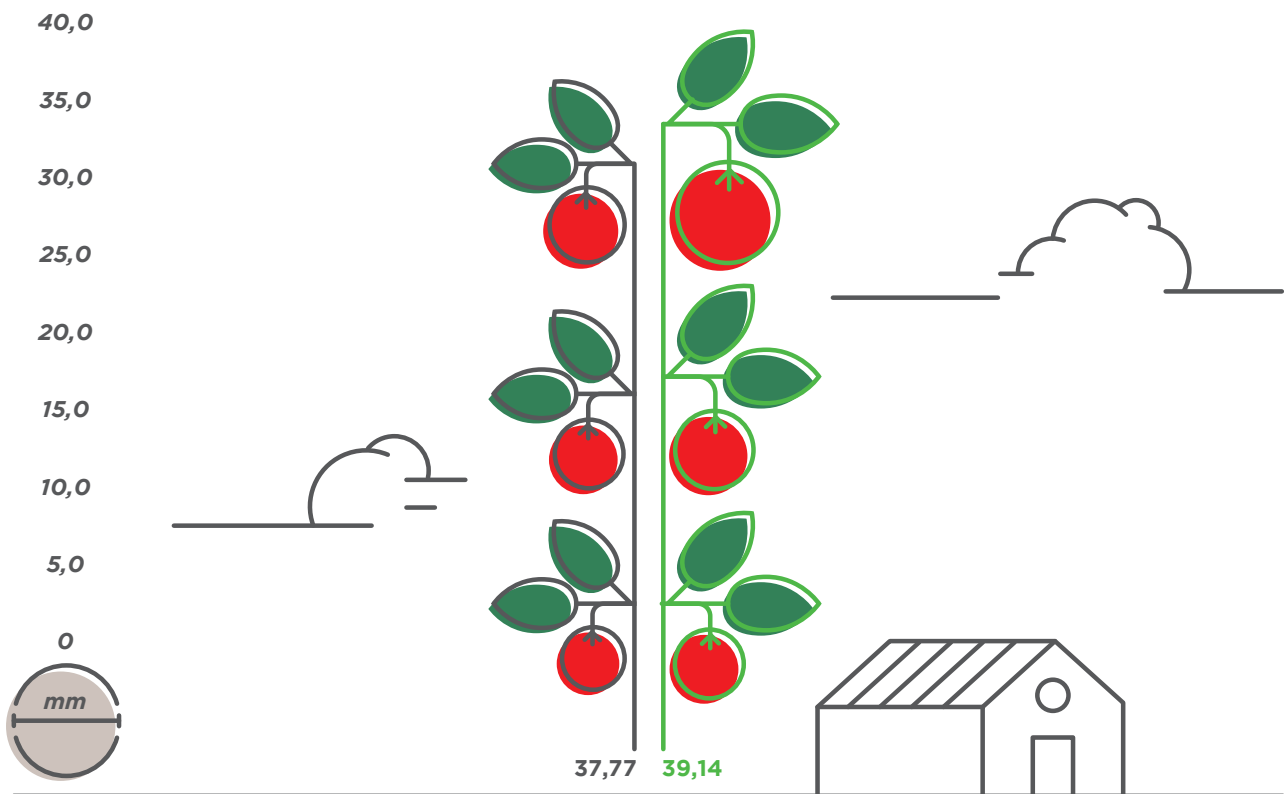
Neem Care FL improves the root system, showing an increase in width, length, fresh weight and volume of roots, compared to the untreated control, thanks to its content of micronutrients. Such elements have a specific activity on roots, which become wider and, therefore, more resistant against biotic and abiotic stress. In conclusion, Neem Care FL enhances a higher number of bigger roots as well of root hairs, stronger and able to avoid all problems related to the cultivation of “tired” lands.

## FRUITS FRESH WEIGHT



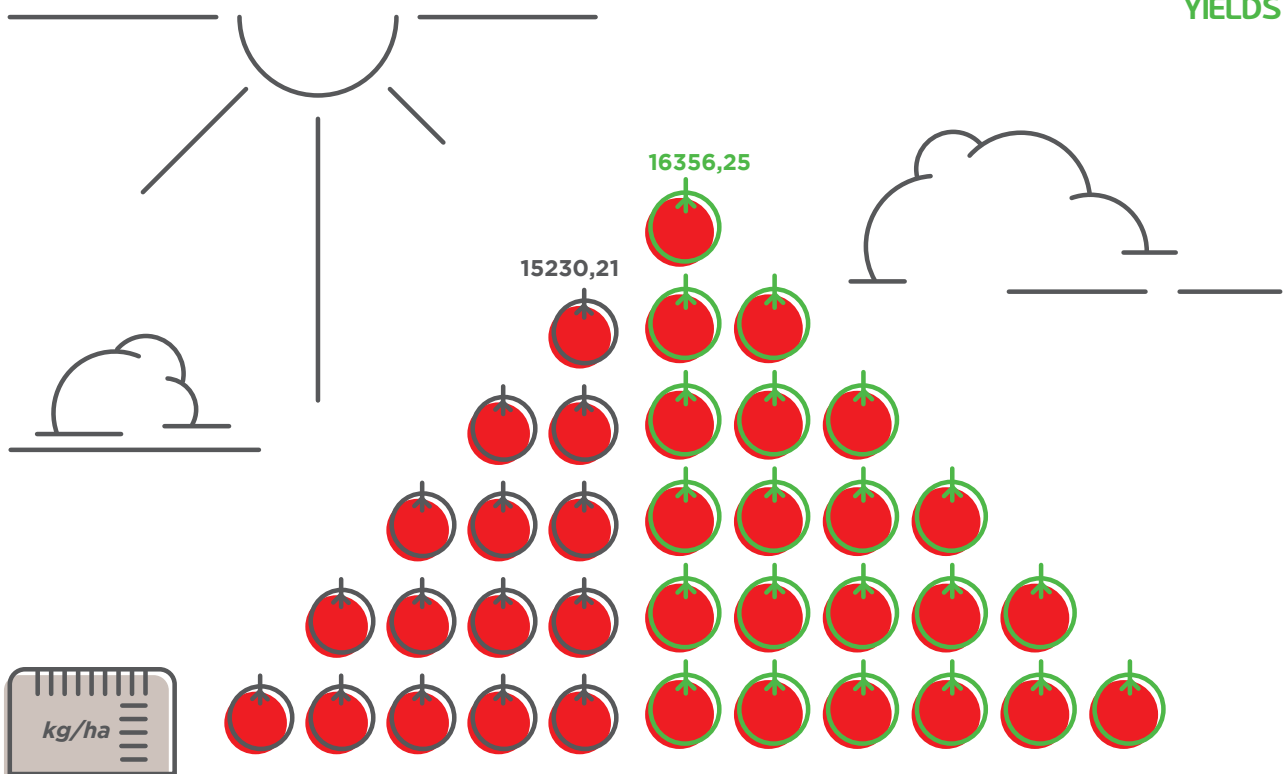
**FIG 7** - Fresh weight of fruits in two compared treatments.

## FRUITS SIZE



**FIG 8** - Average size of fruits in two compared treatments.

## YIELDS



**FIG 9** - Yields in two compared treatments.

Neem Care FL improves yields, with an increased fresh weight, bigger size and higher production of fruits. Wider roots allow a more efficient use of NPK fertilizers and a consequent increase in GSP.



