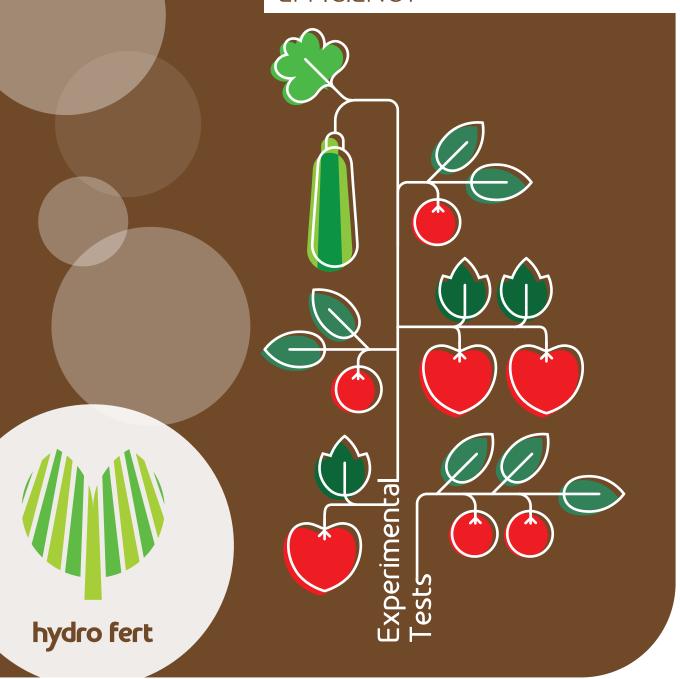


BETTER ROOTS DEVELOPMENT AND PHOTOSYNTHETIC EFFICIENCY







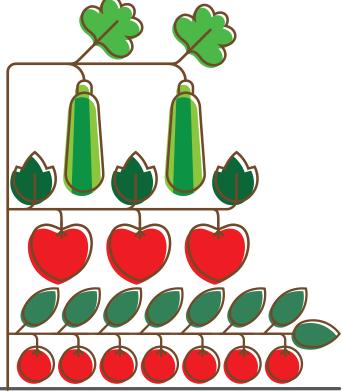
### Hydro Gold Veg

11L 5-20L 120L 1000L

Fluid extract of yeast containing brown seaweeds, with amino acids of plant origin (20%) and micronutrients.
Allowed in organic agriculture.

### **BENEFITS**

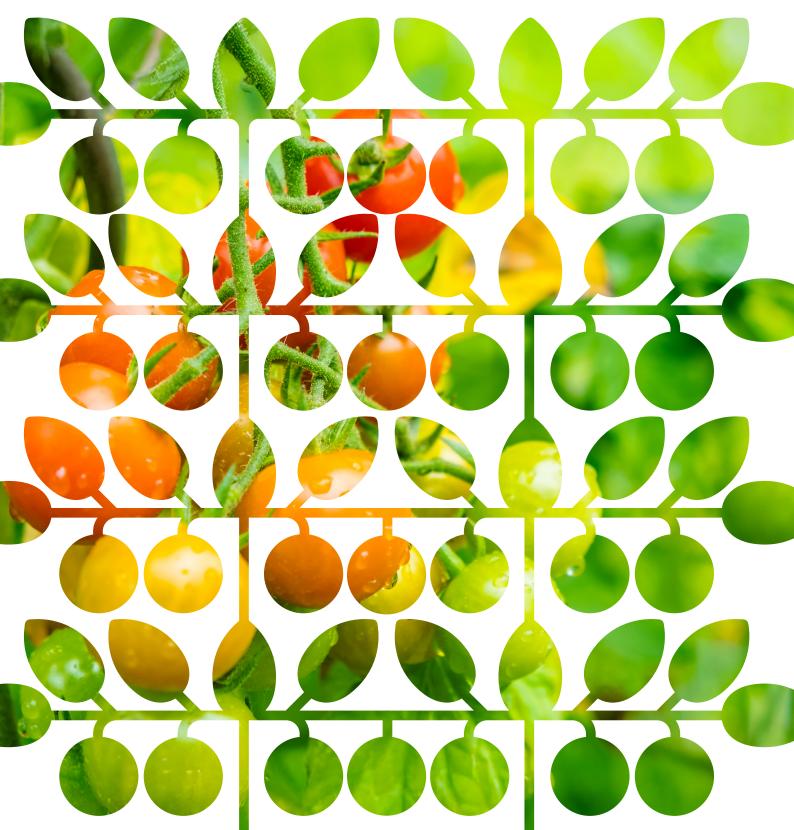
- increased roots development
- better photosynthetic efficiency
- superior yields



Hydro Gold Veg is a totally water-soluble organic nitrogen fertilizer, based on amino acids of plant origin, containing brown seaweed (*Sargassum, Laminaria*). Thanks to its particular composition, with a high and well-balanced content of free amino acids that can be rapidly absorbed, it can enhance the production of proteins, enzymes, plant regulators and sugars.

# Plant extracts: precious allies of plants

When regularly applied, Hydro Gold Veg is apt to achieve increased roots volume, homogeneous plant development, yields'improvement in terms of quality and quantity, as well as longer shelf life. In case of stress conditions (frost, hail, weeding, root asphyxia), it helps quickening the plant's vegetative regrowth.





## Tomato crops in open fields



### **MATERIALS AND METHODS**

Species	Sola	anum lycc	num lycopersicum var. HEINZ 1538				
Experimental design Fu			Fully randomized blocks				
Test du	ration	14 weel	4 weeks: 13/05/2019 (transplanting) - 23/08/2019 (end of trial)				
Temperature		Accordi	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)							
Light	Typica	al of the trial period					
Substratum Sandy and loamy soil							
Method of administration			Fertigation				
Compa	red tre	eatments	Control and Hydro Gold Veg (20 I/ha)				
Number of applications			3 (flowering, fruit setting, fruit growth)				

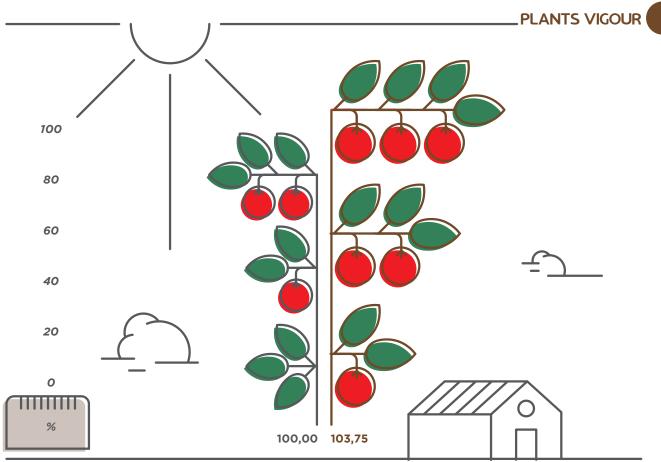


FIG 1 - Average vigour of plants in two compared treatments.

Hydro Gold Veg increases the average plants vigour compared to the untreated control. The brown seaweeds and the free amino acids, that can be rapidly absorbed, favour a bigger vegetative growth.

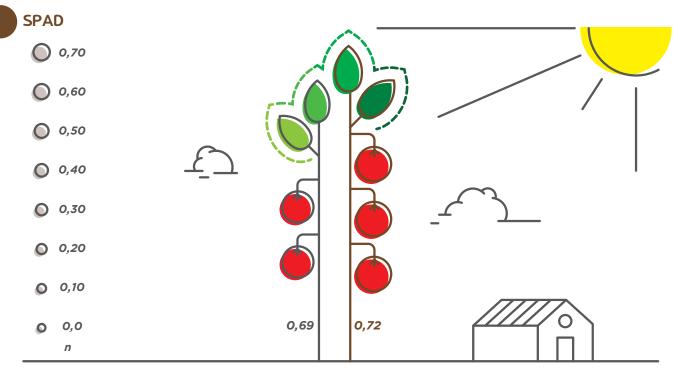


FIG 2 - Average SPAD values in two compared treatments.

Hydro Gold Veg increases the chlorophyll content (SPAD value) compared to the untreated control. This improves the phytosanitary status of plants, which become stronger against physical stress caused by frost or hail damages.

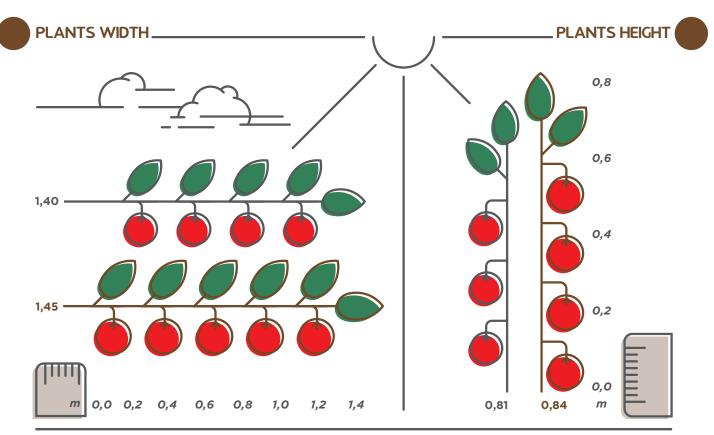
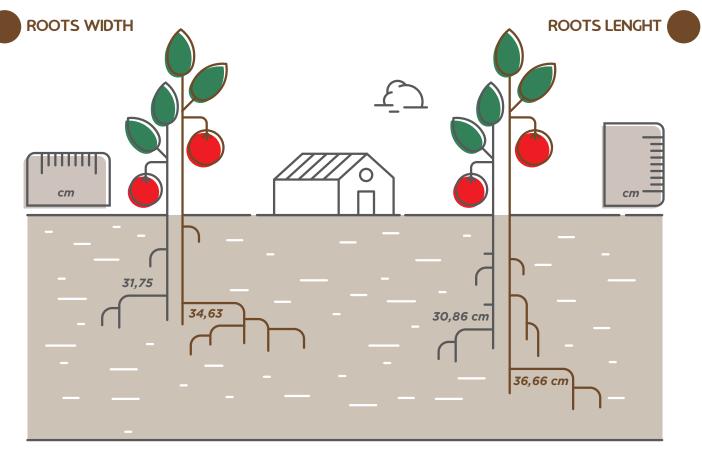


FIG 3 - Average width and height of plants in two compared treatments.

Hydro Gold Veg increases the height and width of plants compared to the untreated control, confirming the previous results which report a higher percentage of vigour. The free amino acids which can be rapidly absorbed favour a higher production of enzymes, plant growth regulators (PGR), sugars, proteins, and, therefore, a bigger growth.



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

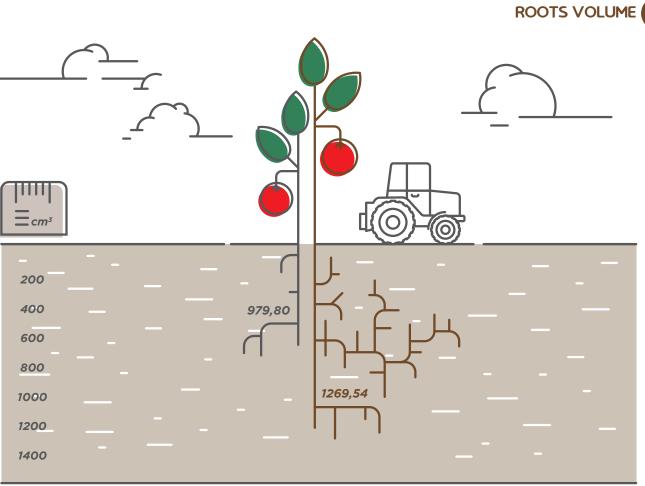


FIG 5 - Average volume of roots in two compared treatments.

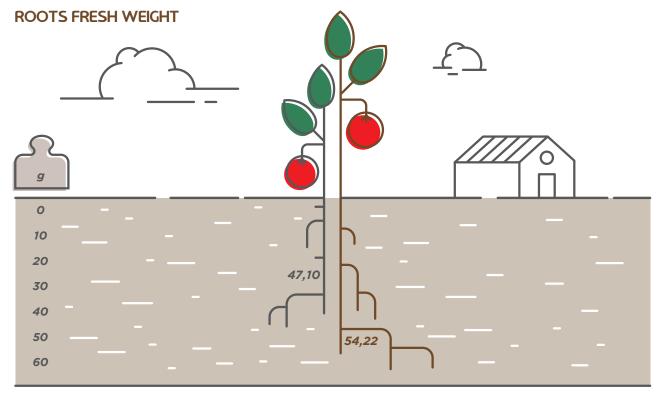
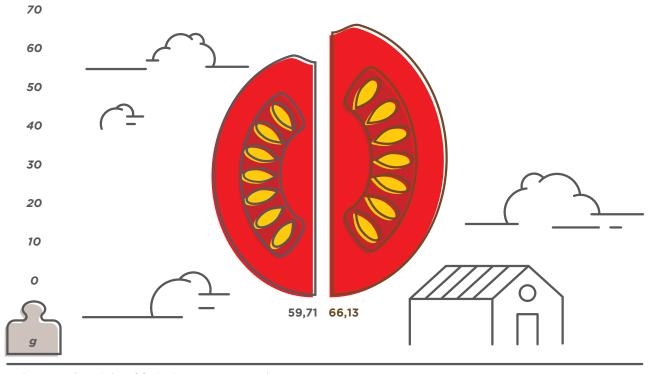


FIG 6 - Fresh weight of roots in two compared treatments.

Hydro Gold Veg improves the root system, proven by augmentations in width, length, fresh weight and volume values, compared to the untreated control, also thanks to its content of brown seaweeds.

A more expanded root system allows a better absorption of nutrients and, therefore, a higher plant resistance against biotic and abiotic stress.

### FRUITS FRESH WEIGHT



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

Hydro Gold Veg increases the fresh weight of fruits compared to the untreated control.

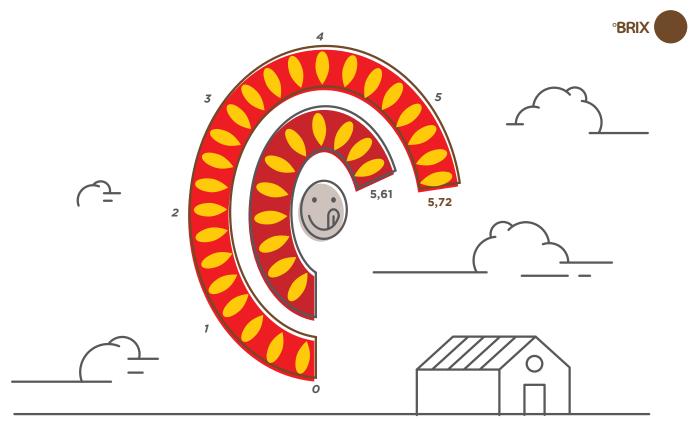
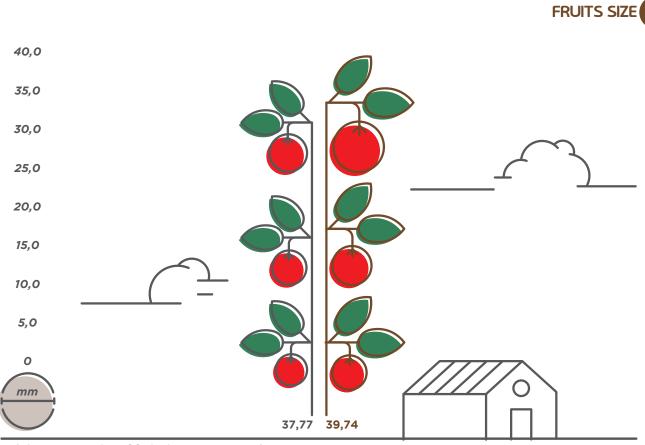


FIG 8 - °Brix in two compared treatments.

Hydro Gold Super increases the °Brix value compared to the untreated control, resulting in better quality yields.



**FIG 9 -** Average size of fruits in two compared treatments.

Hydro Gold Veg increases the size of fruits compared to the untreated control.

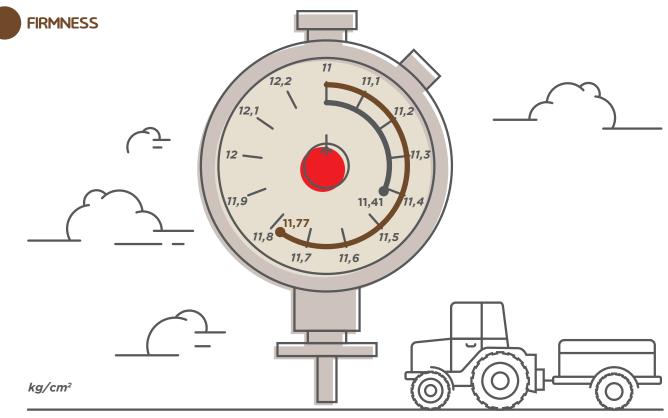


FIG 10 - Average firmness of fruits in two compared treatments.

The use of Hydro Gold Veg increases the firmness of fruits compared to the untreated control.





## Tomato crops in growth chamber



### **MATERIALS AND METHODS**

Species	Solai	num lycopersicum var. Cuore di bue				
Experim	nental	design Fu	ally randomized blocks			
<b>Test Duration</b> 4 wee			S			
Temperature		19 °C (night) and 23 °C (day-time)				
Relative humidity 65-75%						
Light 14 hours						
Substratum Peat						
Method of administration			n Fertigation			
Compared treatments   Control and Hydro Gold Veg (20 I/ha)						
Number of applications			3 (once a week)			

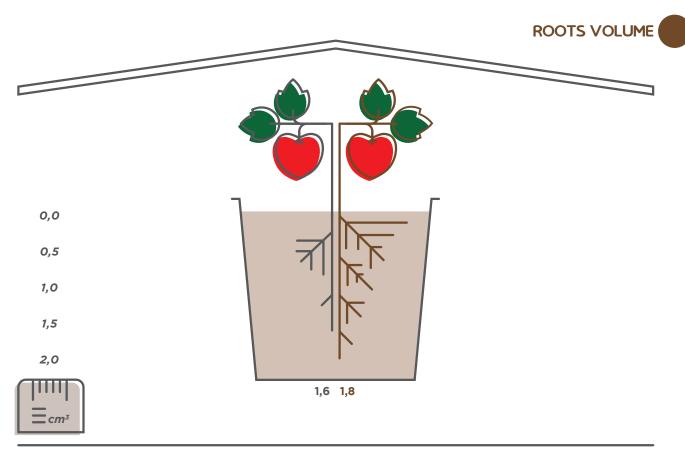


FIG 1 - Average roots volume in two compared treatments.

Hydro Gold Veg increases roots volume thanks to the presence of brown seaweeds and amino acids, which favour a major expansion of roots and, consequently, a better soil exploration.





### **MATERIALS AND METHODS**

Species	Cucu	umis melo var. Ortano					
Experimental design			Fully	ully randomized blocks			
Test duration 4 weeks			S				
<b>Temperature</b> 22,5 - 23			3°C				
Relative humidity 65-75%							
Lights 14 hours							
Substratum Mixture of peat and perlite (10:1)							
Method of administratio			ion	n Fertigation			
Compared treatments   Control and Hydro Gold Veg (20 I/ha)							
Number of applications			s 3	3 (once a week)			

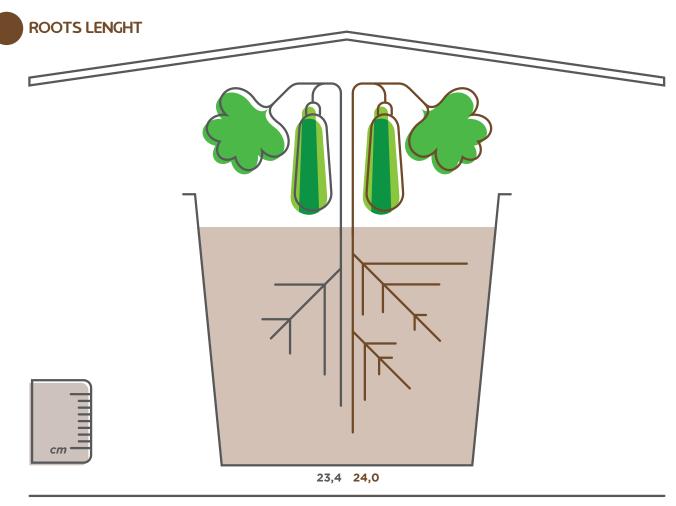


FIG 1 - Average length of roots in two compared treatments.

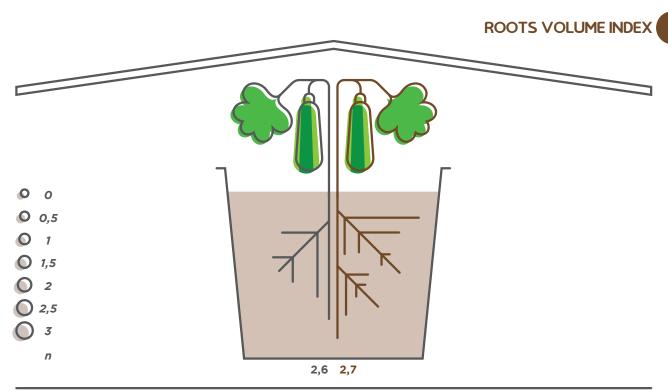


FIG 2 - Roots volume index in two compared treatments.

Hydro Gold Veg, thanks to its content of brown seaweeds and amino acids, favours a major roots expansion, thus resulting in a better use of the NPK supplied. Plants with a more expanded root system are stronger against biotic and abiotic stress.

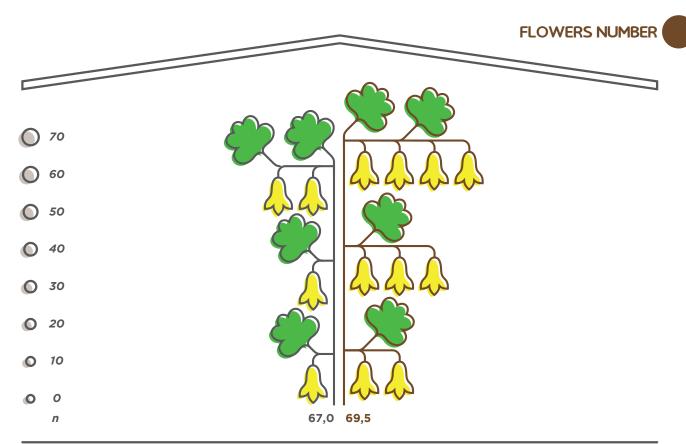
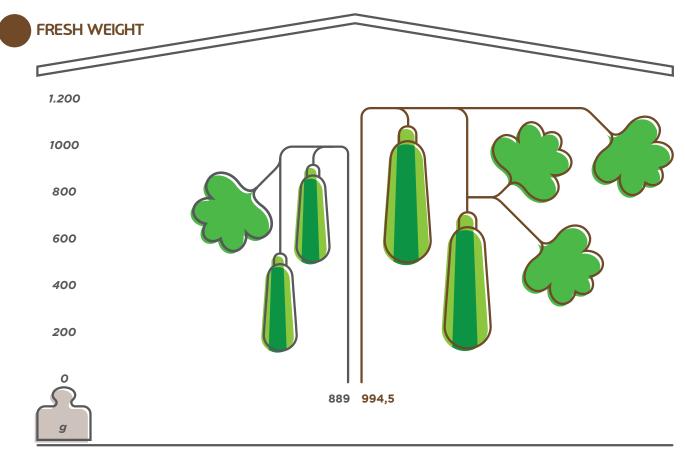


FIG 3 - Average number of flowers per plot in two compared treatments.

Hydro Gold Veg favours a higher flowers number per experimental plot, thus increasing the final production.



**FIG 4 -** Fresh weight per plot in two compared treatments.



### LEGEND

Bottle

Jerrycan

Foliar application

o Fertigation

BIO Allowed in organic agriculture

RS RS Technology

