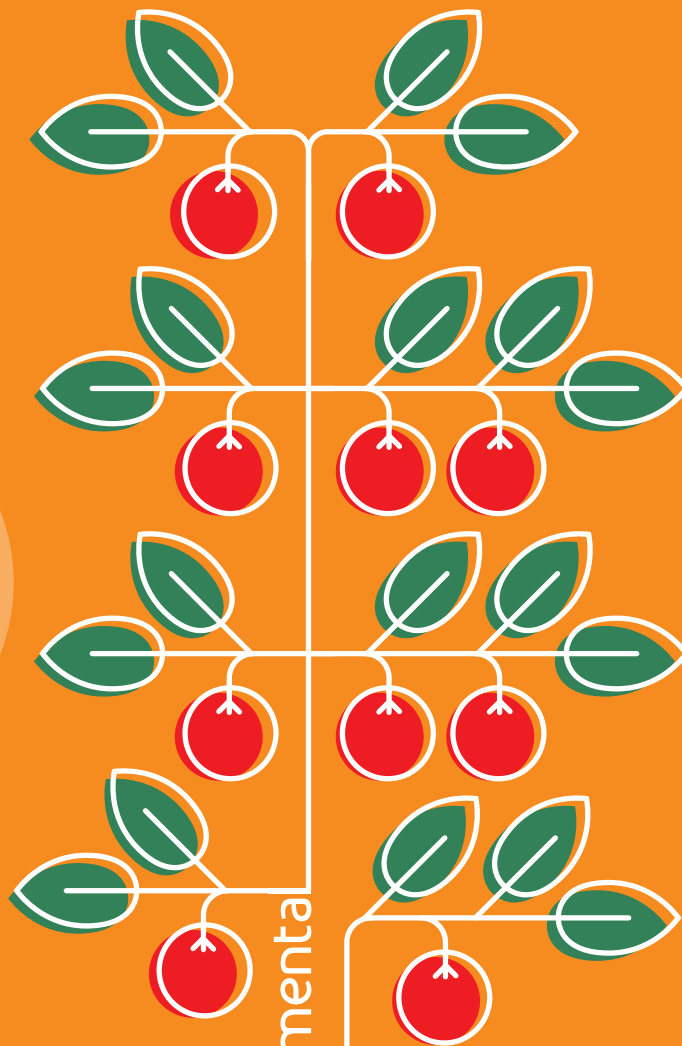


HYDRO GOLD SUPER

BETTER VIGOUR
AND YIELDS



Experimental
Tests



hydro fert



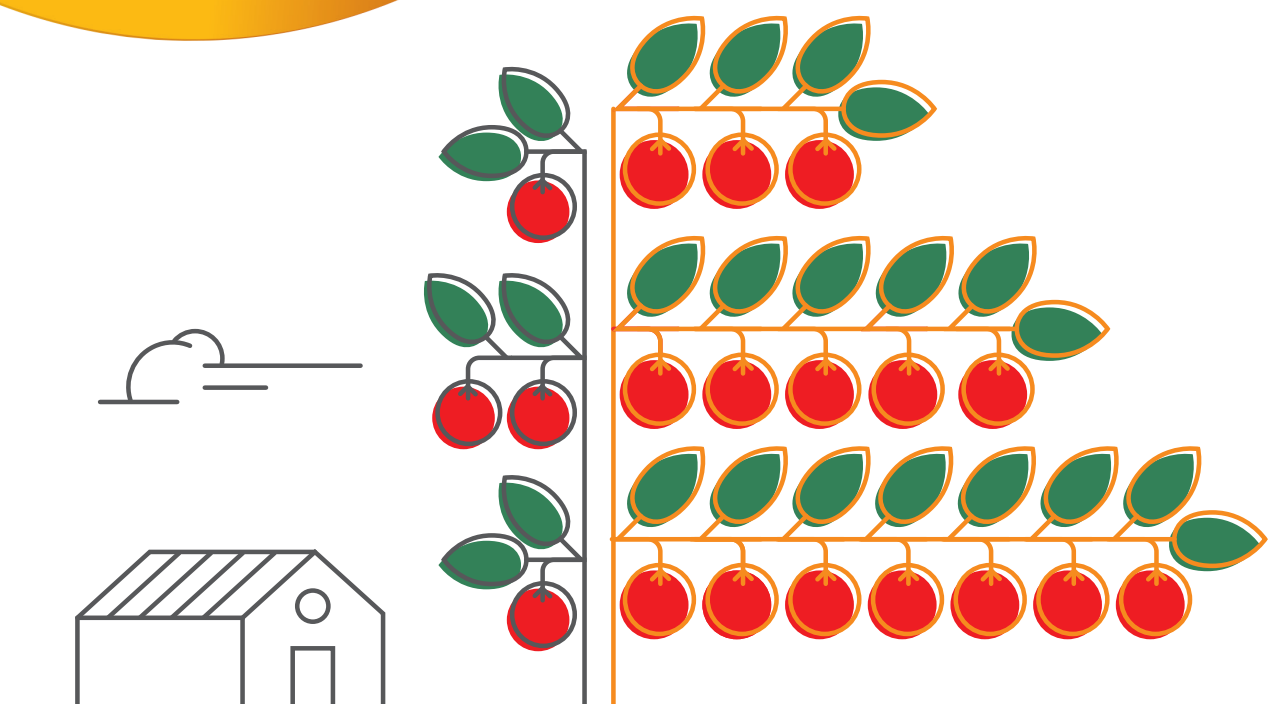
Hydro Gold Super

1L	5 - 20 L	120 L	1000 L

Hydrolyzed fluid in suspension with a high content of amino acids (especially glycine and proline), essential for plants metabolism. Its composition is constant over time, maintaining a long shelf life (5 years), with no microbial contamination, sedimentation and/or decomposition.

BENEFITS

- increased plants vigour
- better yields
- superior root development



Hydro Gold Super is a totally water-soluble biostimulant formulation, obtained from the hydrolysis of high-quality organic matters. Given the high and balanced content of amino acids, oligopeptides and peptides with a low or medium molecular weight, this product is at the top amongst the amino acids-based fertilizers in the market.

The benefits provided by amino acid-based fertilizers

In foliar applications, it is both easily absorbed through the cuticles and carried to the metabolic active sites, where the synthesis of enzymes, proteins, plant regulators and sugars takes place. In fertigation, the protein fraction is useful for a slow release of the stock of organic nitrogen, which positively influences chemical, physical and biological soil properties. The use of Hydro Gold Super has many benefits, such as: plants vigour, better yields and fruit setting, bigger size, better organoleptic properties, longer shelf life. In case of stress (frost, hail, weeding, lack of water or root asphyxia) weakens the plants, Hydro Gold Super quickens its vegetative regrowth.



Tomato crops in open fields



MATERIALS AND METHODS

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

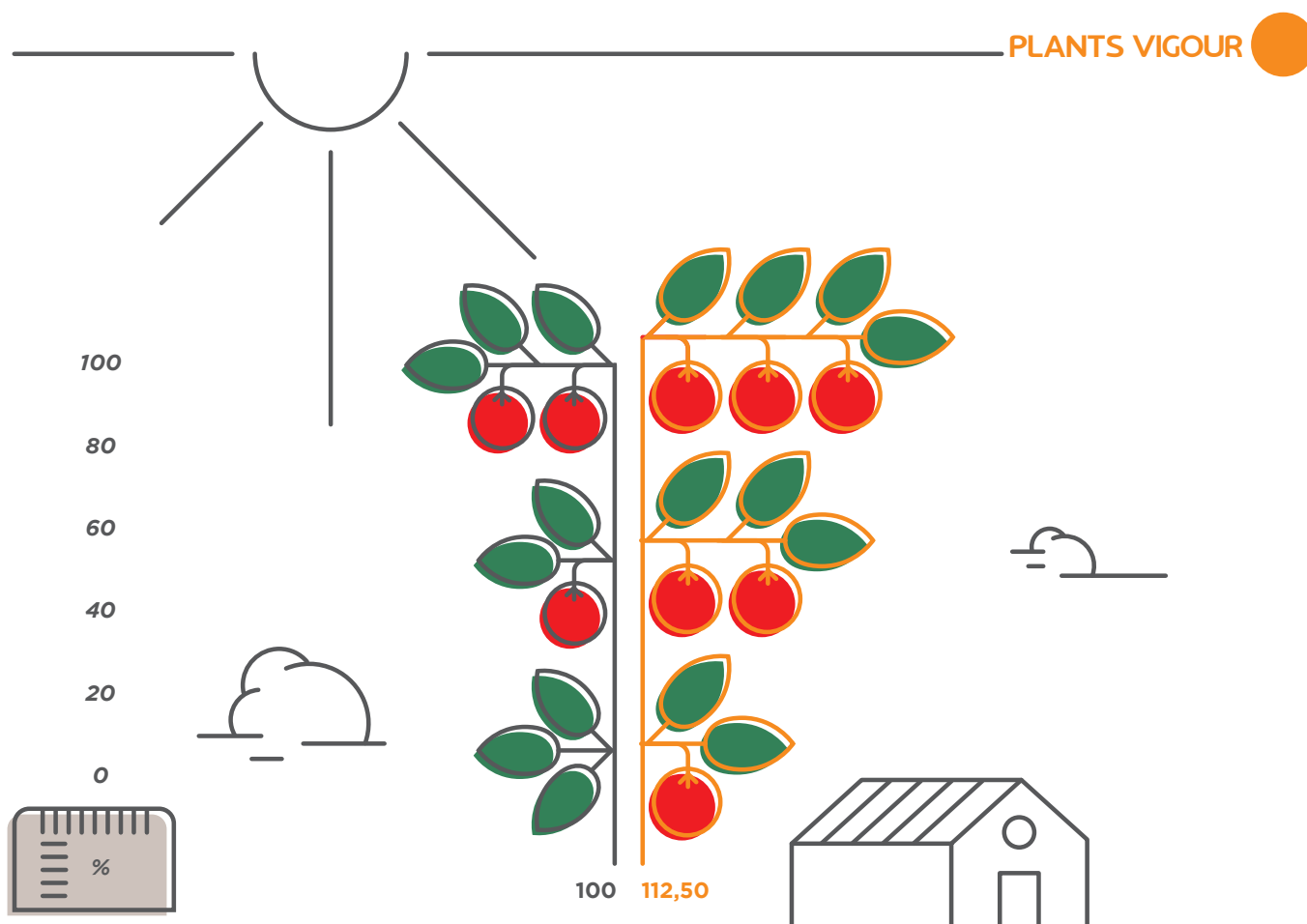


FIG 1 - Vigour of plants in two compared treatments.

Thanks to its biostimulating action, Hydro Gold Super increases the average vigour compared to the untreated control.

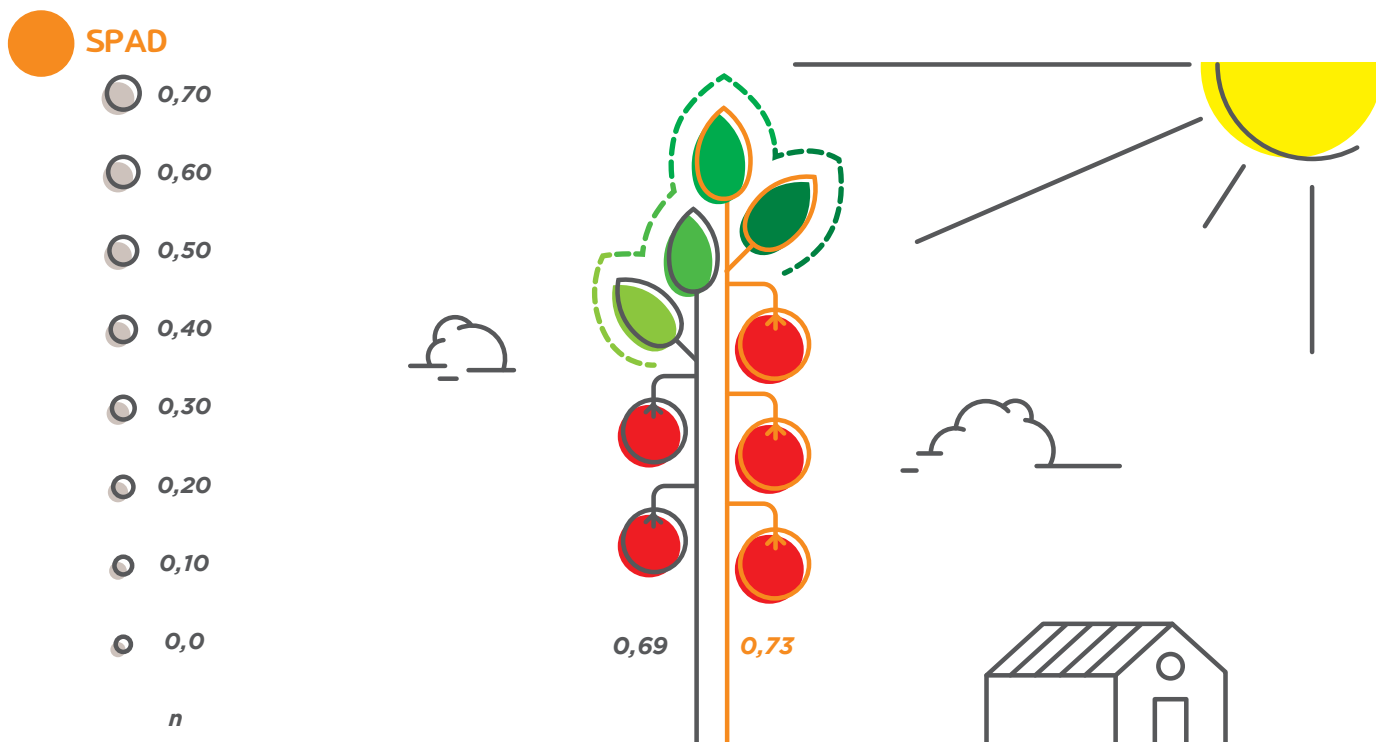


FIG 2 - SPAD values in two compared treatments.

Hydro Gold Super increases the SPAD values compared to the untreated control. This proves a better photosynthetic activity and, therefore, an improved phytosanitary status of plants.

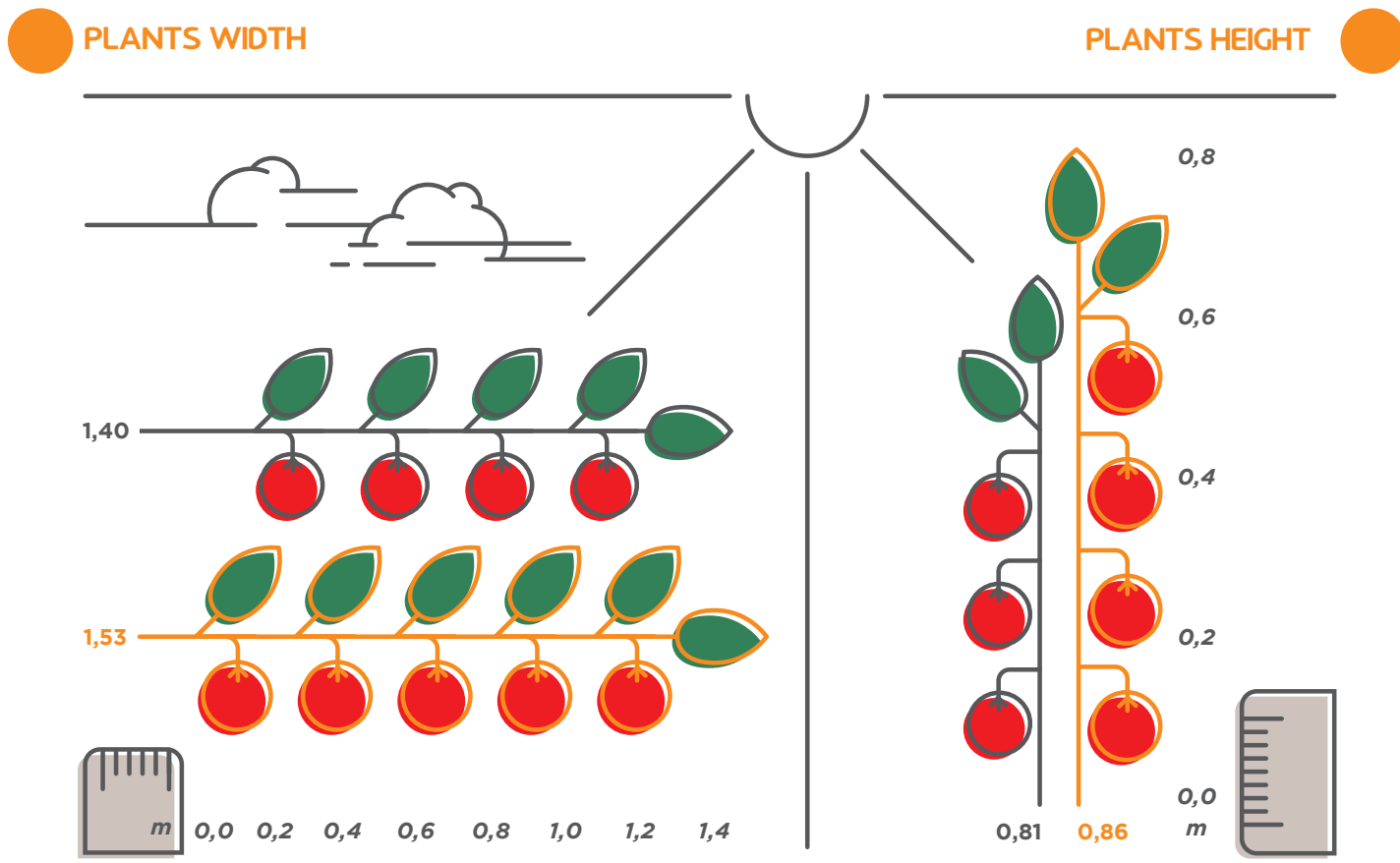


FIG 3 - Width and height of plants in two compared treatments.

Hydro Gold Super increases the plants growth (both in width and height values) compared to the untreated control.

ROOTS WIDTH

ROOTS LENGHT

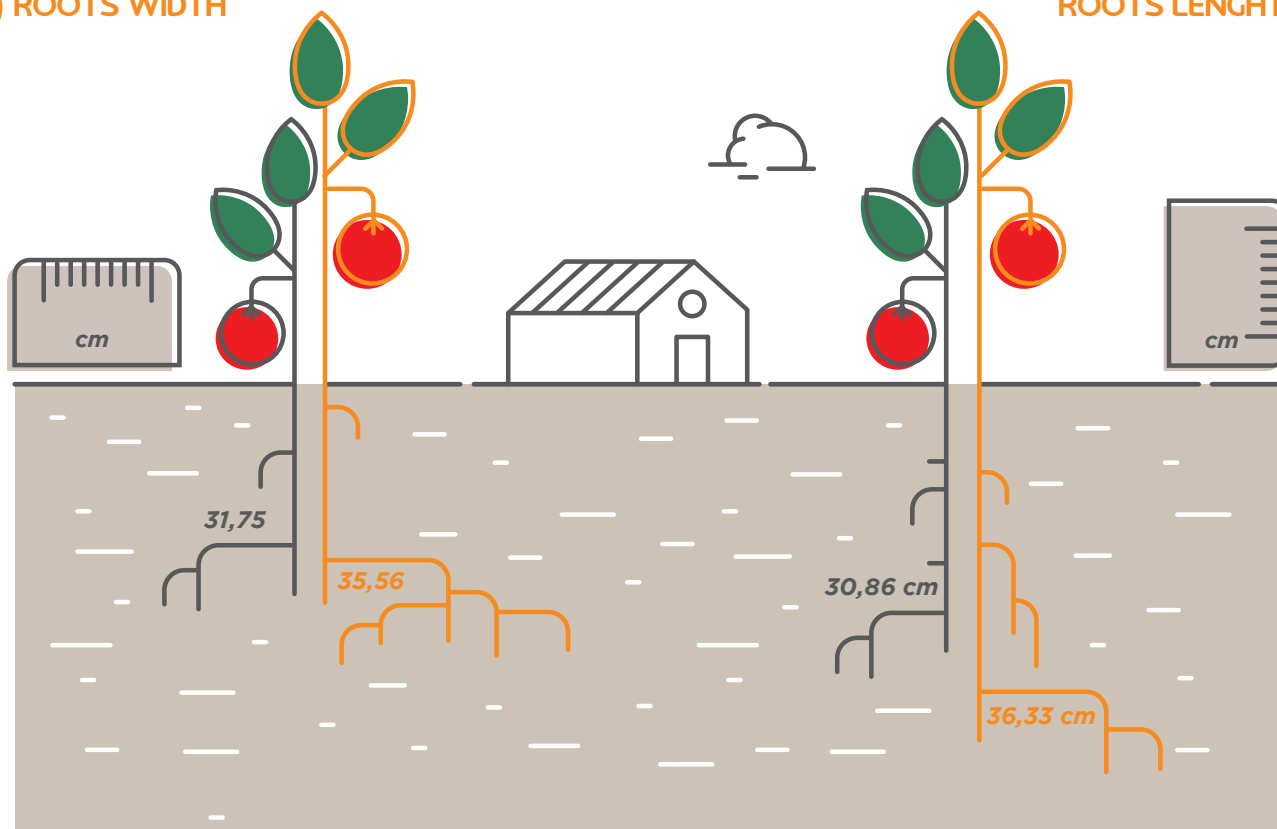


FIG 4 - Width and lenght of roots in two compared treatments.

ROOTS VOLUME

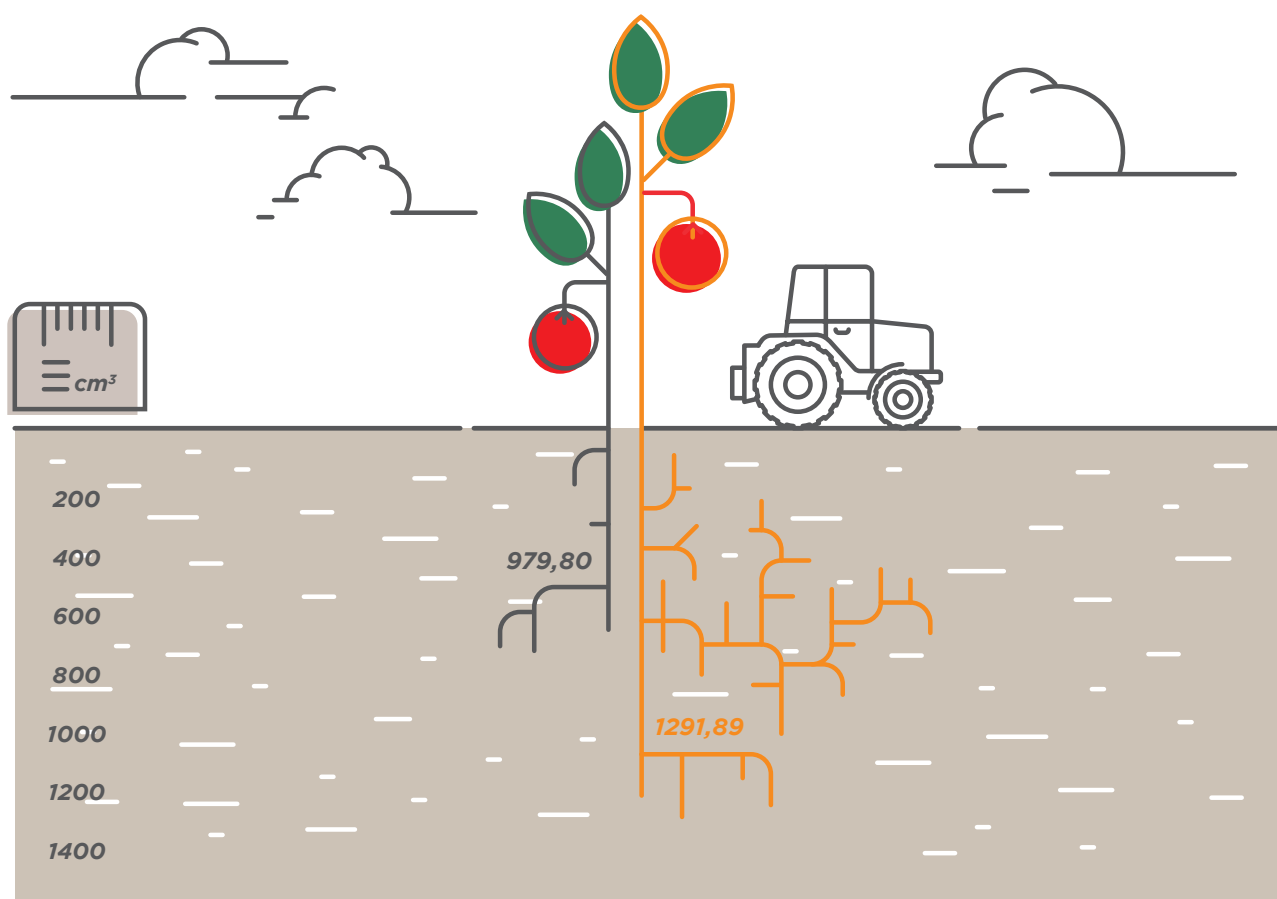


FIG 5 - Volume of roots in two compared treatments.

ROOTS FRESH WEIGHT

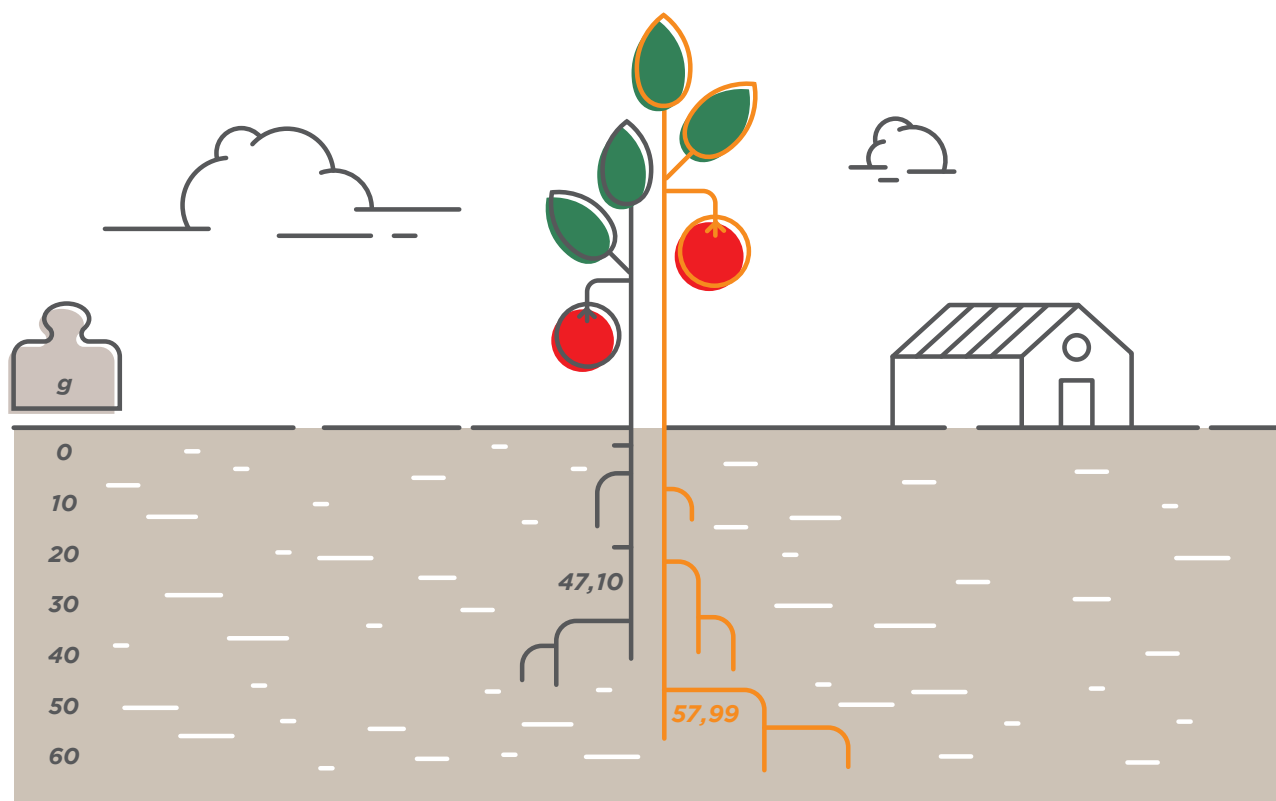


FIG 6 - Fresh weight of roots in two compared treatments.

Hydro Gold Super improves the root system, proven by increases in width, length, fresh weight and volume of roots compared to the untreated control. That's thanks to its content of amino acids favouring roots growth.

FRUITS FRESH WEIGHT

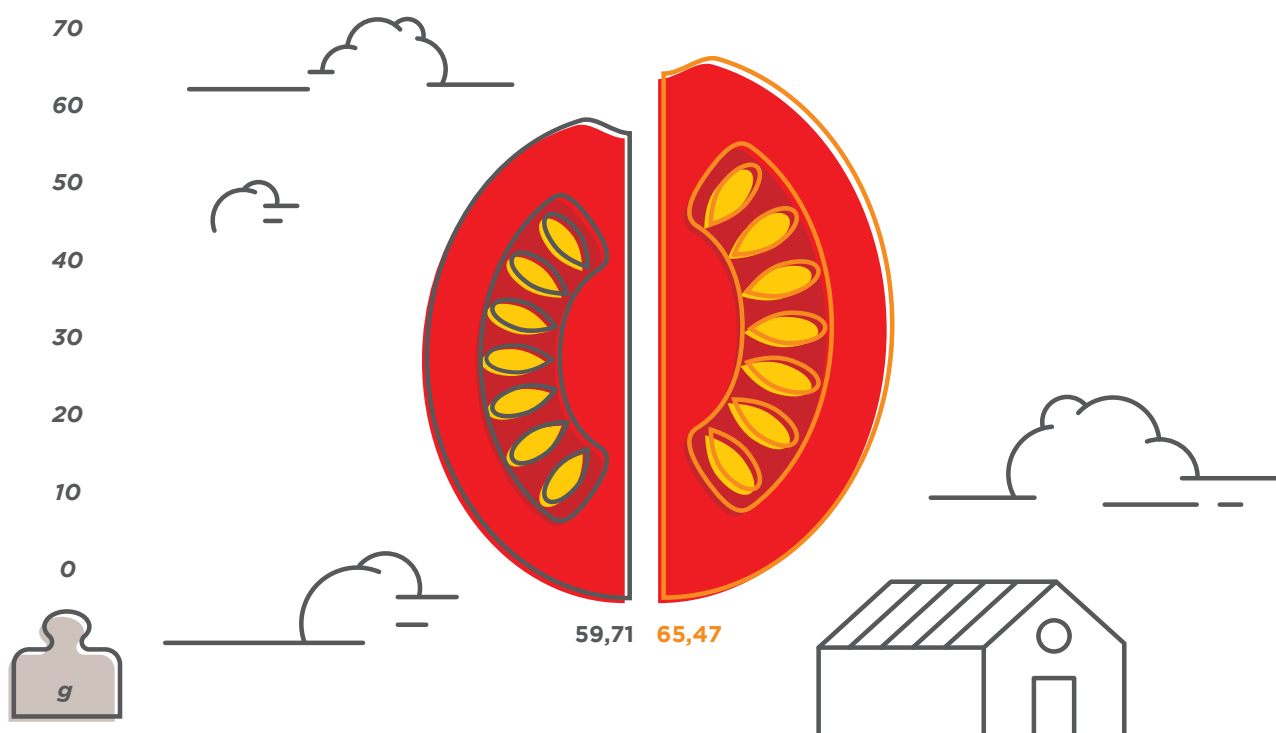


FIG 7 - Fresh weight of fruits in two compared treatments.

FRUITS SIZE

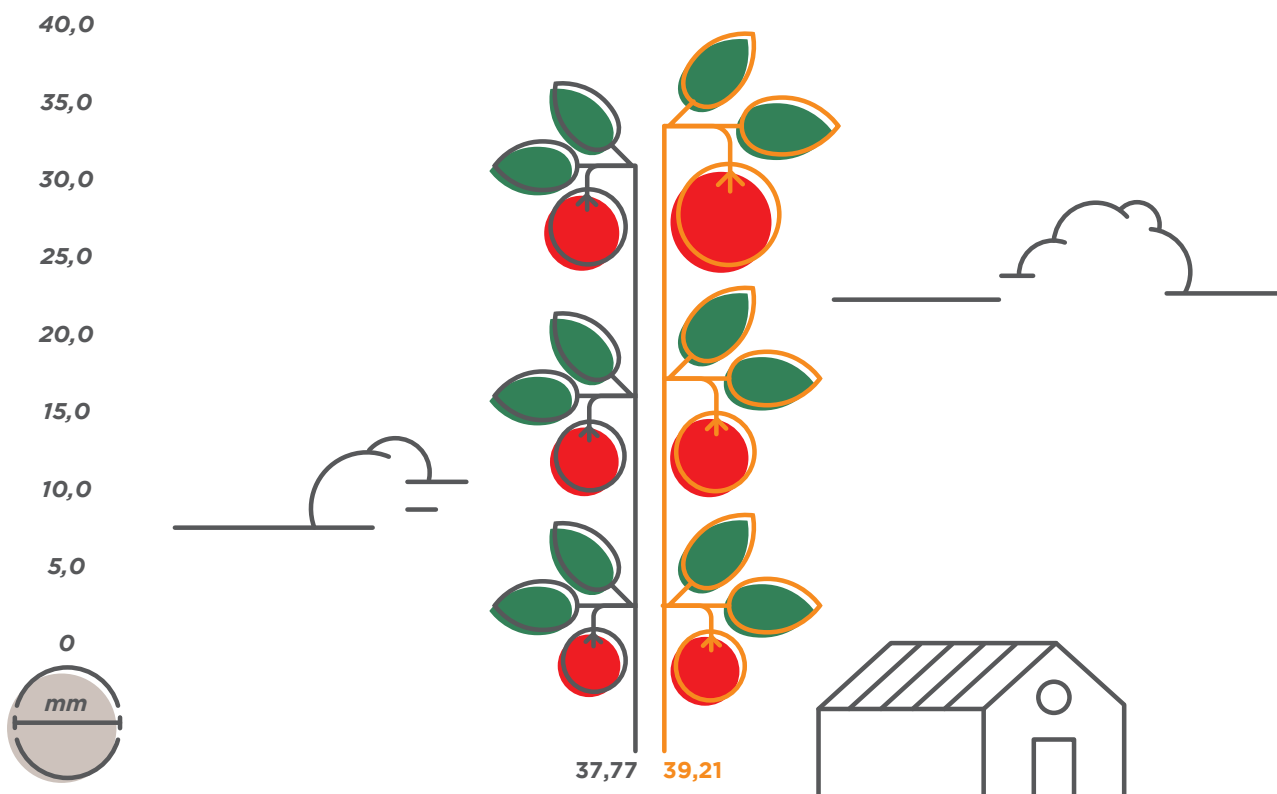


FIG 8 - Average size of fruits in two compared treatments.

FRUITS DRY MATTER

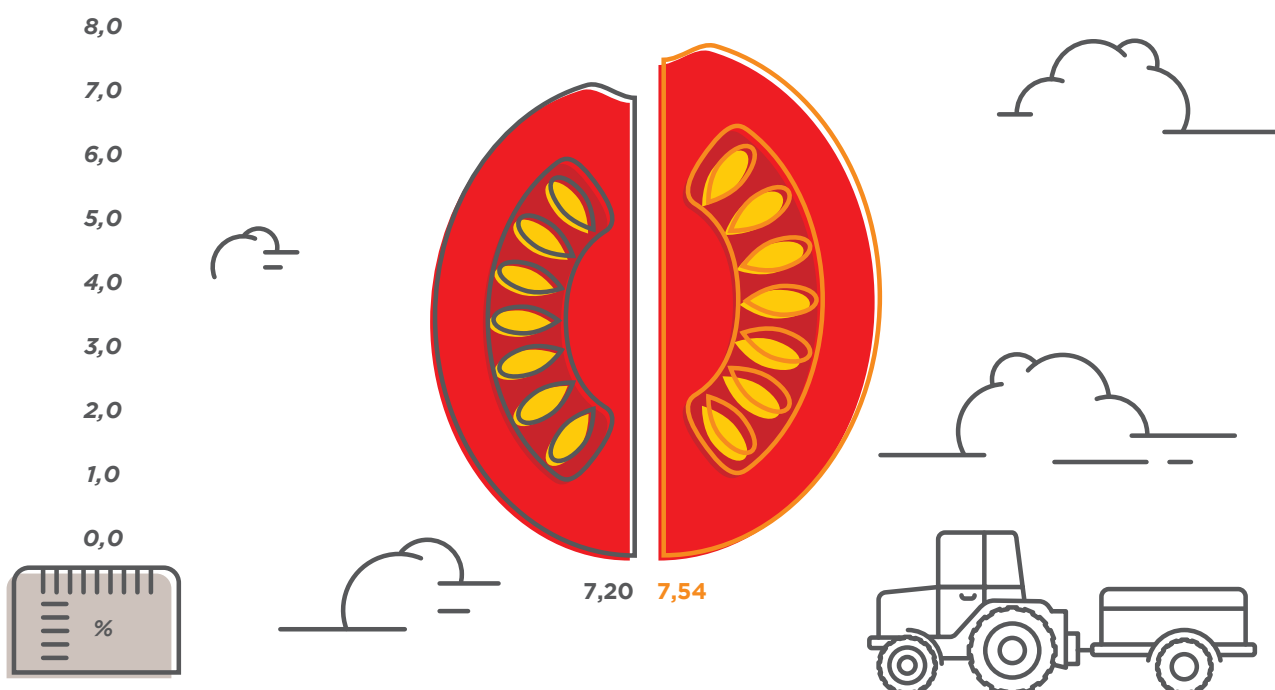


FIG 9 - Dry matter of fruits in two compared treatments.

Hydro Gold Super improves the quality of the end product, resulting in increased values of fresh weight, size and dry matter of fruits. That's thanks to its content of amino acids increasing yields.

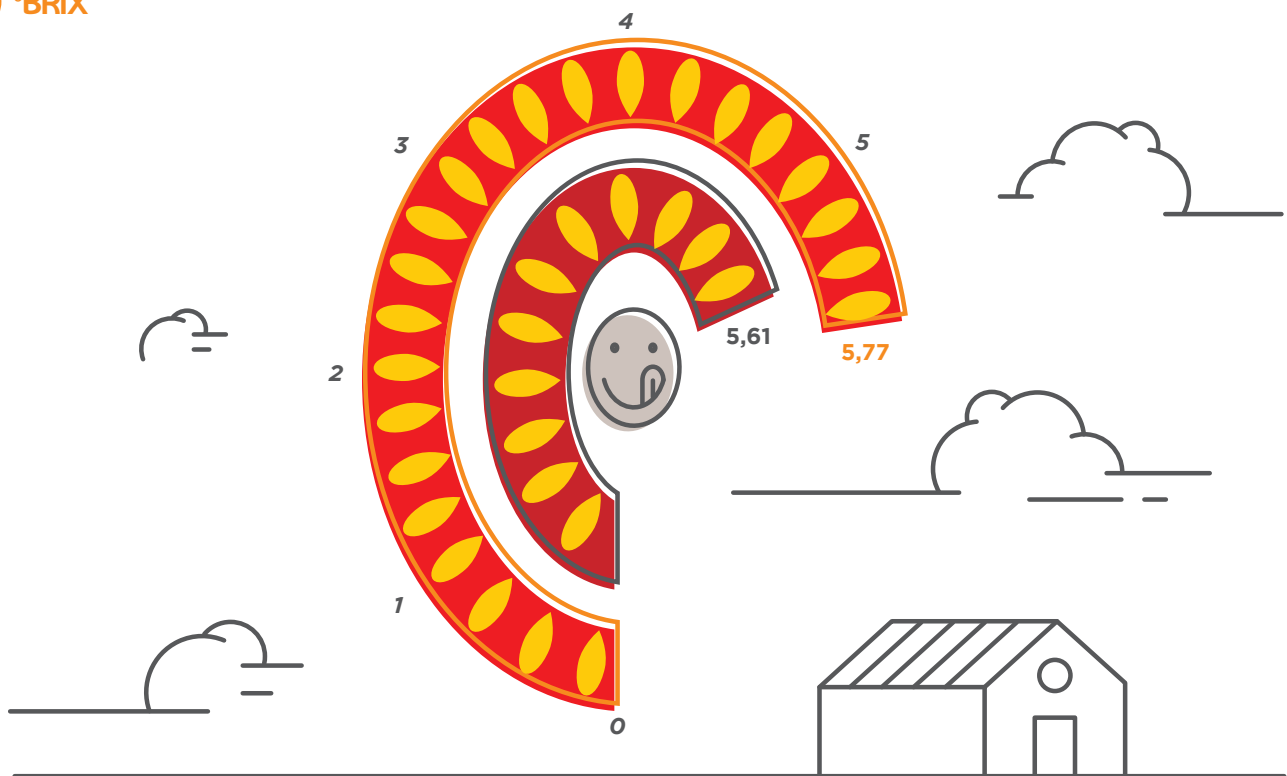


FIG 10 - °Brix in two compared treatments.

Hydro Gold Super increases the °Brix values compared to the untreated control. That's thanks to the action of amino acids, precursors of yields quality.



