

# The Future of vegetable growing



**Humiverse®**  
More Yield the Natural Way



# The effective advantages of Humiverse® Plus

- Promotion of soil life
- Improvement of soil structure and increase of humus formation
- Increasing the availability of macro- and micro nutrients
- Increase of cation exchange capacity
- Increase of water holding capacity
- pH value equalisation on (strongly) acidic and alkaline soil
- Improvement of salt- and pollutant-contaminated soil
- Enzymatic effect on the formation of important plant hormones
- Protects the plant from UV radiation and increases chlorophyll formation



Germany, 2023, private Farmland



Senegal, Peanuts, ISRA

## Other Advantages:

- Improvement of nutrient uptake (activity / root extracts)
- Dissolution of salts and renewed bioavailability
- Increased resistance to abiotic stress, e.g. drought, heat, UV radiation, frost, salinated soils (due to overfertilisation with NPK fertilisers), Nutrient deficiency and pH-value-deviations
- Promotion of root growth (rhizosphere, gravitropism)
- General growth stimulation (seed germination, flowering and fruit development)
- Increase of disease resistance (e.g. fungal diseases, low hyperglycemia in the plant)
- Improvement and safeguarding of the qualitative and quantitative properties of the harvested products

*„Humiverse® Plus is a patented organic biostimulant of the highest purity and represents a new world standard. After scientifically accompanied tests and successful use in practice, nothing more stands in the way of product introduction in both organic and conventional agriculture. Humiverse® Plus means more quality and more yields the natural way.“*

**Terra Optima AG, Heiko Petermann, CEO**



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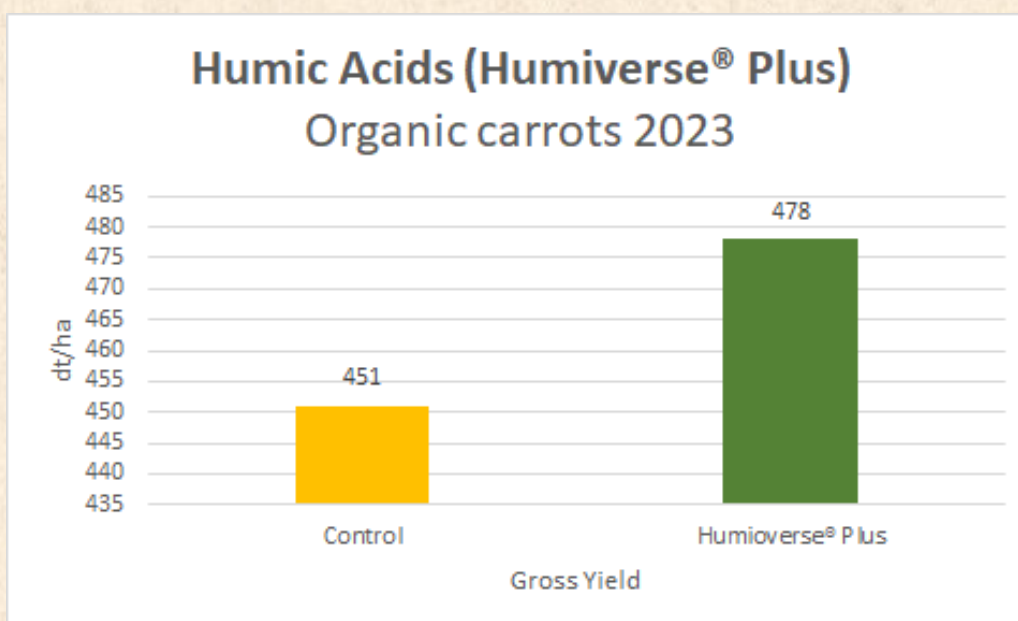
# Humiverse® Plus – The Future of vegetable growing

## Field trial - Use of Humiverse® Plus in organic carrots

Study on the effect of Humiverse® Plus on **quality** and **yield**, expert Holger Buck, Naturland GmbH. commissioned by Terra Optima AG and Beckmann and Brehm GmbH, Hauptstraße in 27243 Beckeln,

### ➤ General conditions

- ❖ Sort: Novara F1 (115 growing days, Bajo)
- ❖ Application rate: 300l/ha water, 4 l/ha Humiverse® Plus
- ❖ Field: 27248 Wesenstedt (Bioland-/Naturland-Betrieb H. Kanzelmeier)
- ❖ Soil type: IS
- ❖ Application: Birchmeier REB15 pressure-regulated battery backpack sprayer
- ❖ Sprinkling : none
- ❖ Harvest : 31.07.2023 (84 Growing days)



Visselhövede, 14. September 2023



Test area at 27.06.2023,



Test area at 31.07.2023

### ➤ Test results

- ❖ **Additional yield** (at 70% marketable carrots): **28,00 dt/ha (6%)**
- ❖ **Additional revenue** (at a market price of 50 €/dt): **950,00 €/ha**



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# Humiverse® Plus - The Future of Farming

## Recommendations for agricultural practice

These recommendations are based on scientifically monitored on-farm trials. Humiverse® Plus can be applied pre-emergence, but also post-emergence. A concrete recommendation depends very much on the respective conditions such as previous crop, soil condition and region.

|   |  |                            |
|---|--|----------------------------|
| <b>Crop Farming</b>                                     | <b>As a soil additive for regeneration:</b>  |                            |
|   | Depending on soil type/humus content: 20,0 - 50,0 l/ha<br>Water application rate: up to 500,0 l/ha<br>Single dose or splitting possible.<br>Follow the regional recommendations! |                            |
|   | <b>As biostimulator on the Plant:</b> 4,0 - 6,0 l/ha<br>From 2-leaf stage<br>Water application rate: 150-300,0 l/ha  |                            |
| <b>Green spaces,<br/>Grassland,<br/>Pastureland</b>     | <b>As a biostimulant on the Plant:</b>   | 3,0 – 5,0 l/ha             |
|   | Water application rate   | 150-300 l/ha               |
| <b>Viticulture,<br/>Fruit growing<br/>Special crops</b> | <b>As a biostimulant on the Plant:</b>   | 50 ml/Plant                |
|   | Water application rate:  | 10,0 l/Plant               |
| <b>Compost,<br/>Substrates<br/>Soil Production</b>      | <b>For optimal effect:</b>   | 0,5 – 6,0 l/m <sup>3</sup> |
|   | Application rate depending on origin and weight of the raw material.   |                            |



Humiverse® Plus is applied liquid and has an immediate effect on plants and soil.



For soil recultivation, irrigation and fertilisation, take advantage of the direct advice from our team!

**Consultancy and Sales:**

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Mehr Informationen

**h.**  
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