

En-Soil Algae

The benefits of using a live culture of *C. vulgaris* concentrate as a soil amending biostimulant to reduce use of synthetic fertilizers and increase carbon sequestration.

www.enlightenedsoil.com

Enlightened Soil Corp



What's Good for Soil is
Good for People, Profit, & Planet.™

What is En-Soil Algae?

- Concentrated live culture of *Chlorella vulgaris*
- Potent and Low Cost Biostimulant
- Non-Toxic Universal input

What does En-Soil Algae Do?

- Increases microbial activity in the soil
- Increases photosynthetic efficiency in the plant
- Promotes nitrogen fixation and carbon sequestration
- Promotes bio-availability of phosphorus
- Releases phytohormones that stimulate plant growth
- Promote vitamin and enzyme production in plants that boost resistance to biotic and abiotic stress (drought, salinity)

How does En-Soil Algae support Soil Carbon Storage?

- Production of En-Soil Algae is a safe and green process with little energy input and no harmful byproducts. Algae starter + water + light + CO₂ > More algae + O₂
- When growing algae or any plant, atmospheric CO₂ is incorporated in the plant as organic carbon, and O₂ is the byproduct.
- Soil testing shows that algae application rapidly increases soil organic matter and organic carbon (for practical purposes organic matter = organic carbon).
- Microalgae enhance photosynthesis and provide photosynthates, including fixed carbon, as nutrient sources for soil-borne microbes (Gobler et al., 2007; Kazamia et al., 2012) contributing to biomass accumulation.