

# Benefits of Algae for Improved Soil Health

Healthy soil creates the conditions for the following improvements.

Dead Algae

Live Algae

## Increases organic carbon content in soil

Improves soil fertility and nutrient holding capacity



## Increases yields

Increases crop value per acre



## Increases soil porosity

Increases water and nutrient storage capacity; allows for easier root growth



## Utilizes native algae species

Algae is adapted to environment



## Increases water retention capacity of soil

Enhances water use efficiency



## Offsets synthetic fertilizer needs

Increases sustainability of farming practices



## Has a symbiotic Relationship to other microbes (bacteria, yeast, fungi)

Increases beneficial microbial populations – healthier soil generally



## Produces CO2 carbonic acid to loosen soil

Increases soil porosity



## Secretes polysaccharides

Increased soil aggregation, water and nutrient retention



## Provides nutrition for microbial community

Increases microbial activity



## Reduces salt stress

Increased productivity in saline soils



## Stabilizes soil aggregates

Reduces soil particle breakdown



## Increases populations of beneficial organisms

Increases microbial diversity - healthier soil generally



## Secretes substances that can protect root systems

Increases plant resilience to stressors



## Exudes nutrients and other valuable compounds into the soil

Better nutrient use



## Secondary metabolites release phosphorus in soil

Enhanced nutrient usage



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Healthy soil creates the conditions for the following improvements.

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Live Algae

## Produce phytohormones that can influence plant growth

Increased plant growth



## No associated supply chain costs

Direct grower savings



## Promotes soil crust formation

Healthier soil



## Increases hypotonicity

Longer fruit shelf-life



## Increases brix

Better produce and increased market value



## Binds soil particles

Reduces soil erosion



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