Benefits of algae as a soil amendment	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	✗	✓
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	✓	✓

MyLand

A soil health company
MyLand partners with you to infuse life into your soil, helping to return your farm to its most fertile state.

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