

FUEL YOUR FIELDS NATURALLY WITH AMPLAPHEX™: THE COMPLETE LIQUID BIOFERTILIZER SOLUTION

Product Description

AmplAphex is a **complete liquid biofertilizer** comprised of a diverse community of microbes, plant-based humus extracts and algae that work together to improve soil structure, make more nutrients available and ultimately increase yield.

Plant-based humus extract creates an ecosystem for water, nutrients and microbes, building a symbiotic environment that is conducive to the exchange of essential nutrients, ultimately attaching them to the roots for uptake.

- **BENEFICIAL BACTERIA:** PGPRs – Free-living bacteria that colonize the *Rhizosphere*, breaking down organic matter, fixing nitrogen, solubilizing phosphorus and cycling nutrients that become more available for the plant.
- **ALGAE:** Green manure which quickly breaks down and releases nitrogen into soil becoming a food source for the microbes and the plant.
- **PLANT EXTRACT:** Diverse blend which impacts microbial diversity and stabilizes overall formulation.

Key Benefits

- Improves soil structure
- Improves vigor and stand uniformity
- Enhances water and nutrient use efficiency
- Improves plant drought and stress resiliency

Key Features

- Lower use rate, easy-to-use liquid formulation seamlessly integrates into broadcast application practices, including broadcast, in-furrow, drip and fertigation
- Increases microbial populations which break down organic matter, capture nitrogen, solubilize phosphorus and cycle nutrients – ultimately making nutrients more available to the plant
- Creates an environment for efficient water use and increases stress tolerance
- Contains algae as a food source for the microbes until roots develop
- Produced in the USA – Princeton, IL Production

Application Timings/Rates

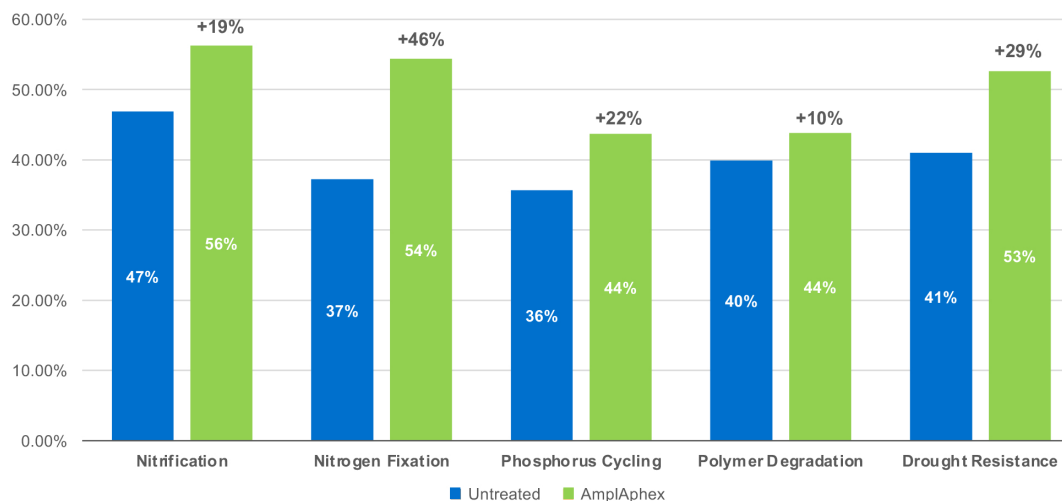
- 1 to 5 qts per acre – soil applied
- 0.5 to 2.5 qts per acre – foliar applied

Learn more at AMVAC.com/GreenSolutions

AMPLAPHEX® PERFORMANCE

AmplAphex® has been proven across years of field trials and has consistently lessened soil compaction and improved root development, water use efficiency and nutrient uptake, enabling uniform crop establishment while minimizing stress and maximizing yield potential.

Nutrient Use Efficiency: MOA Soil Applied
Metagenomic Evaluation of AmplAphex™ Treated Soil Compared to Untreated



Primary Benefit
Nutrient Use Efficiency

Secondary Benefit
Stress Tolerance

Rhizophagy in Action

SP-1 increased the microbial community associated with plant roots for several important nutrient cycling characteristics making more nutrients available for uptake.

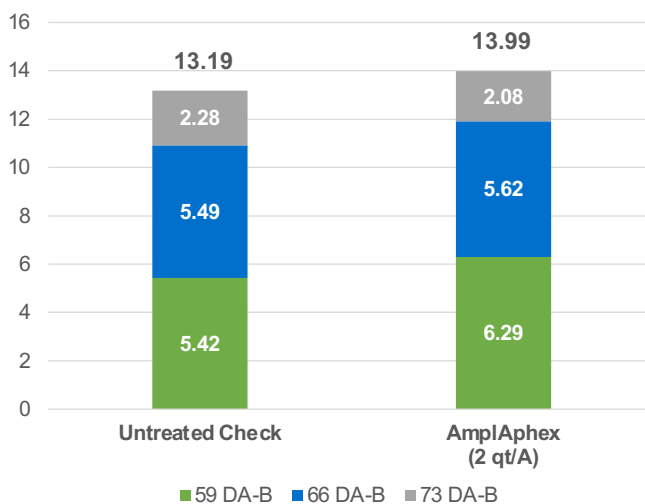
Soil composite sampled from grower field and then corn is planted into field soil in a greenhouse and metagenomic analysis of soil associated with plant roots was made and reported here.



AmplAphex™ on Blueberries Eltopia, WA

The use of AmplAphex in blueberry production results in higher yields during the first and second harvests, ultimately increasing total yield.

Marketable Yield (tons/A)



LSD ($\alpha=0.1$) or NSD; LSD ($\alpha=0.1$). Letters that are the same are not statistically different within an individual trial, location or data set.