

# BIOLOGICALS

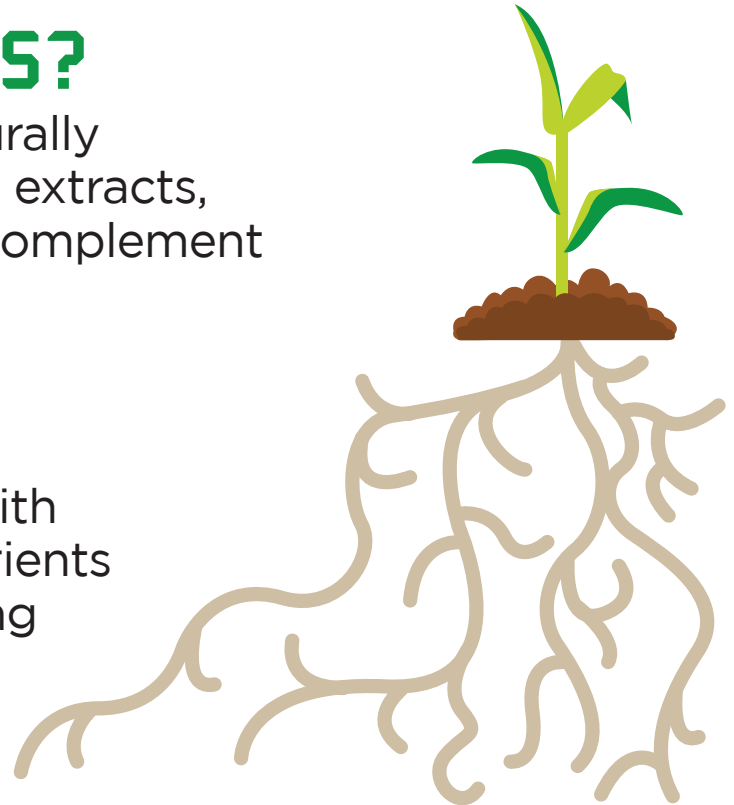
## WHAT ARE BIOLOGICALS?

Biologicals are made up of naturally occurring microorganisms, plant extracts, and other organic matter that complement a seed's genetics and traits.

## HOW DO THEY WORK?

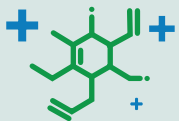
Biologicals work congruently with seed treatment to disperse nutrients throughout the plant—enhancing plant vigor and development.

In other words, biologicals give plants a big nutritional boost.



## BENEFITS OF BIOLOGICALS

INCREASES  
NUTRIENT  
AVAILABILITY



IMPROVES ROOT  
DEVELOPMENT



SUPPRESSES  
DISEASES & PESTS



MAXIMIZES  
GENETIC  
POTENTIAL



PROMOTES  
SUSTAINABILITY



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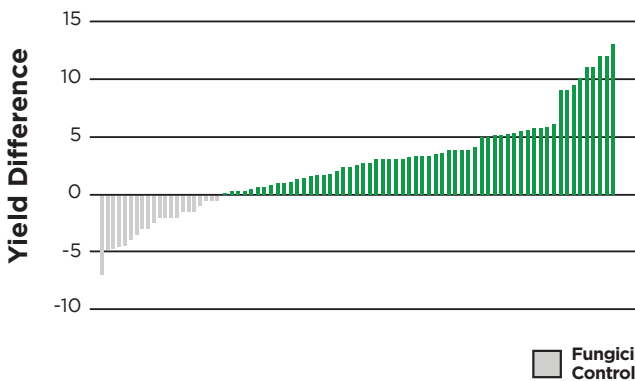
## IDEAL FOR SOYBEANS, CORN, WHEAT, COTTON

BIOst VPH is packed with peptides and amino acids. The amino acids play an essential role in stimulating photosynthesis and resisting adverse climate conditions. And the peptides aid in root hair development. With BIOst VPH, you'll see stronger seedlings with faster emergence.

### Soybean BIOst VPH Yield Comparison

Based off 3-year data, 86 yield comparisons

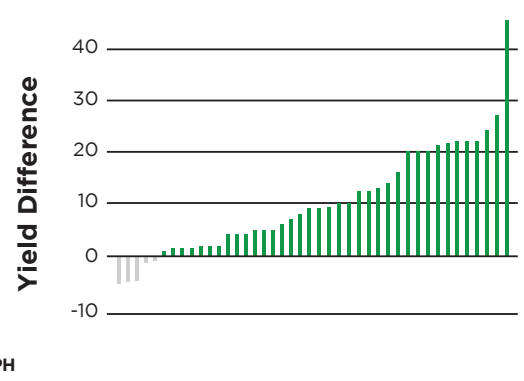
**Average 2.6 bu/A increase (72%)**



### Corn BIOst VPH Yield Comparison

Based off 3-year data, 42 yield comparisons

**Average 10.7 bu/A increase (88%)**



## IDEAL FOR SOYBEANS, DRY BEANS

The first EPA-registered biological, Heads Up is tested and proven to improve root development, suppress Sudden Death Syndrome and full-season White Mold, and provide added control over fusarium, rhizoctonia, and other fungal and bacterial diseases.

### Heads Up Yield Comparison

Iowa State University: Dr. XB Yang Study  
Comparing Biologicals on Soybeans  
Based off 2-year data, 21 trials in 8 states

**Average 3 bu/A increase**

