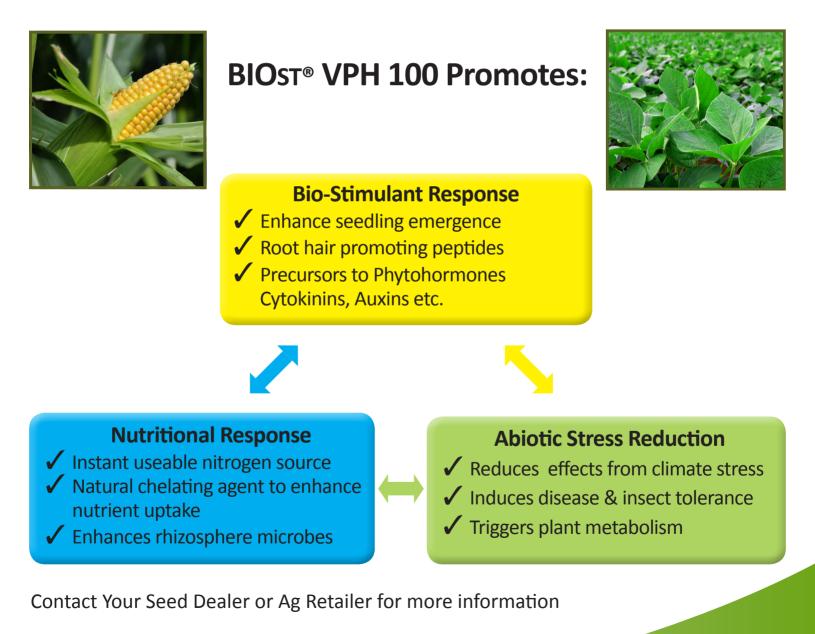


**BIOST® VPH 100** is a Bio-Stimulant seed treatment from a unique vegetal protein hydrolysate source that is hydrolyzed using a proprietary enzymatic process. **BIOST® VPH 100** is comprised of a unique & consistent ratio of peptides & amino acids that promote enhance healthy seedling.



Albaug



## Not All Amino Acids products are created the same...

**The BIOST® VPH 100** formulation is focused on using only plant derived amino acids in a rate and ratio that is beneficial when applied to all crops.

### Importance and Functions of Amino Acids

- <u>Glutamic Acid</u> Stimulates plant growth and increases resistance to adverse climate conditions. It's necessary in large quantities as a precurser of new and other amino acids.
- <u>Serine and Valine</u> Improves the resistance mechanisms of plants to adverse situations.
- Lysine and Arginine Active and essential in the stimulation of Photosynthesis.
- <u>Aspartic Acid</u> Important for it's intervention in many metabolic processes.
- Methionine Increases yield and quality.
- <u>Tryptophan</u> Precurser for the synthesis of auxins.





#### COMPOSITION

Nitrogen 7% Vegetal free amino acids 30.0%

### AMINOGRAM

Alanine	4.6%	Lysine	6.0%
Arginine	7.0%	Methionine	1.5%
Aspartic acid	11.7%	Phenylalanine	5.2%
Cysteine	1.0%	Proline	5.1%
Glutamic acid	18.0%	Serina	5.5%
Glycine	4.5%	Threonine	4.1%
Histidine	2.8%	Tryptophan	1.2%
lsoleucine	4.8%	Tyrosine	3.9%
Leucine	8.0%	Valine	5.1%

### Average Yield Response from BIOst® VPH 100:

- Corn 9.26 bu/A (3 year avg)
- Soybeans 2.48 bu/acre (3 year avg)
- Wheat 1.5 bu/A

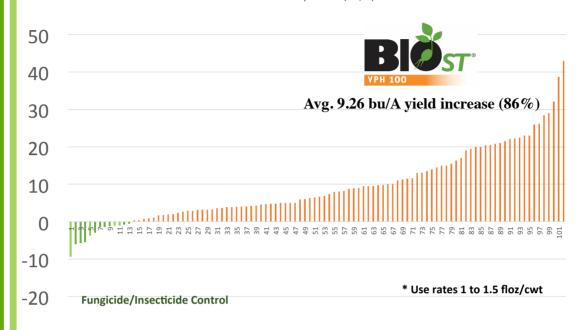
### **BIOST® VPH 100 Use Rates:**

Corn - 1.0 to 2.0 fl oz/cwt Soybeans - 0.75 to 1.0 fl oz/cwt Wheat, Barley & Oats - 0.50 to 1.0 fl oz/cwt Rice - 1.0 to 2.0 fl oz/cwt Dry Beans, Peas, Lentils & Chickpeas - 0.50 to 1.0 fl oz/cwt Cotton - 0.50 to 1.00 fl oz/cwt Canola & Sunflowers - 1.0 to 2.0 fl oz/cwt Sugarbeets - 1.0 to 2.0 fl oz/cwt Sorghum - 1.0 to 2.0 fl oz/cwt

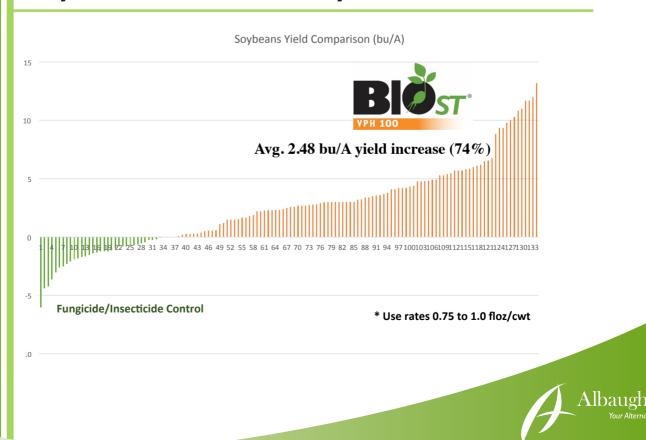


# Corn 3 Year Summary: BIOst® vs F&I Control

Corn Yield Comparison (bu/A)



# Soybeans 3 Year Summary: BIOst® vs F&I Control

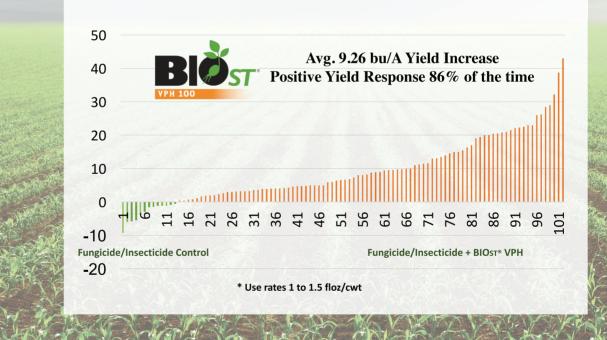




# BIOST® VPH SEED ENHANCEMENT DELIVERS PROVEN PERFORMANCE ON CORN

Consistent performance, field data from Three-years demonstrates increased yields and profits 86% of the time.

## 3 Year Summary: BIOst® VPH vs F&I Control Corn Yield Comparison (Bu/Ac)





#### **BIO**st<sup>®</sup> VPH 100 Seed Treatment Delivers:

- 1. BIOst® VPH provides a Bio-stimulant Response, Enhanced Nutritional Response & Abiotic Stress Reduction
- 2. Faster and stronger emerging corn seedlings
- 3. A positive yield increase over the fungicide and insecticide alone over 88% of the time
- 4. A average yield increase of 9.26 bu/ac over using a fungicide and insecticide alone

For more information on the BIOst® VPH 100 contact a member of the Albaugh Seed Treatment Technology Team. Jay Stroh @ Jays@albaughllc.com, David Winston @ Davidw@albaughllc.com or Lee Stewart @ Lees@albaughllc.com