

Take Your Fertilizer to the Next Level

No one tool will ever solve the world's food need, therefore, we take an agronomic first approach. At BiOWiSH, we team up with fertilizer manufacturers to improve soil conditions and nutrient availability for optimal crop production by supporting the native beneficial soil biology.

How does BiOWiSH® Crop Liquid work?

Featuring the company's proprietary HoloGene 3™ technology, BiOWiSH® endophytic *Bacillus* deliver soil nutrients to crops through the rhizophagy cycle, creating a symbiotic relationship between the plant and soil microbes.

Plant Hologenomics and Rhizophagy

- Optimizes yield potential by improved nutrient uptake
- Improves soil conditions for increased plant vigor

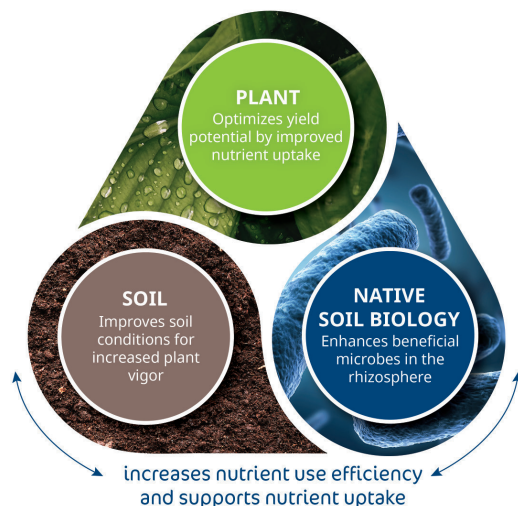
Soil Microbiome

- Enhances beneficial microbes in the rhizosphere

Soil Properties

- Optimizes soil conditions for greater root mass
- Increases nutrient use efficiency and supports nutrient uptake

HoloGene 3™ Technology Plant - Microbiome Shift



Made in the USA

Take your fertilizer to the next level!

ADM and BiOWiSH have a seamless, data-driven customer support program to help you maximize profitability. We have your back!

ADM Fertilizer

Address: 121 S 8th, Suite 1700
Minneapolis, MN 55402
Phone: 612.340.5957

Web: [//admadvantage.com/fertilizer](https://admadvantage.com/fertilizer)

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Always read and follow label directions. Some products may not be registered for sale or use in all states and counties. Please check with your local BiOWiSH representative to ensure registration status. To comply with varying state regulations, BiOWiSH® Crop Liquid may be registered for specific purposes in certain states. BiOWiSH is a registered trademark of BiOWiSH Technologies International, Inc. © 2023 BiOWiSH Technologies

biowishtech.com



BiOWiSH® Crop Liquid

Now available through ADM

BiOWiSH® Crop Liquid is a blend of proprietary microbial cultures that is coated onto dry fertilizers or mixed with liquid fertilizers to create an enhanced efficiency fertilizer. It has an industry-leading shelf life and achieves consistent results across a broad range of operating conditions and environments, all at a low cost to farmers.

Benefits

- Optimizes yield potential by improved nutrient uptake
- Increases nutrient use efficiency and supports nutrient uptake
- Optimizes soil conditions for greater root mass
- Improves soil conditions for increased plant vigor
- Enhances beneficial microbes in the rhizosphere

Consistent performance across a broad range of operating conditions and management practices.

Proven Value for Farmers

BiOWiSH® Crop Technology has been proven in various:


- **Climates and environments:** temperatures, moisture conditions, all soil types
- **Management practices:** fertility programs, crop protection programs, and other best management practices
- **Application processes:** manual, mechanical, or chemigation application processes
- **Economics:** Fertility input cost and yield goals

Segments That Benefit From BiOWiSH®



Broad Acre Crops

Grains, forages, fiber, oil, sugar



Vegetables

Leafy, rooted, fruited, nursery, greenhouse



Fruits

Orchards, vineyards, vines



Horticulture

Landscape, ornamentals, turf (sod and short grass), nursery, greenhouse

Trials & Field Data

USA Independent Third Party Research Shows Value for Farmers

By using nitrogen fertilizers powered by BiOWiSH® Crop Liquid, farmers can benefit even more from their trusted fertility programs with higher returns on investment. Here are the results from our collaborative research efforts, which highlight farmer economics when comparing BiOWiSH® to the grower's standard fertility program in the region:

| Crop | Trial Location | Nitrogen Fertility Level (%) | Coated Fertilizer | How Applied | Yield Change (%) | Net Income Gain (%) | Profit Change (\$USD/acre) |
|--------------|----------------|------------------------------|-------------------|-------------|------------------|---------------------|----------------------------|
| Spring Wheat | Oregon | 100 | Urea | In-furrow | 10.7 | 10 | \$69 |
| Spring Wheat | South Dakota | 85 | Urea | Topdress | 4.7 | 20 | \$11 |
| Winter Wheat | Texas | 100 | Urea | Pre-plant | 11.7 | 12 | \$32 |
| Winter Wheat | Texas | 100 | Urea | Pre-plant | 6.8 | 6 | \$15 |
| Corn | Texas | 100 | Urea | Pre-plant | 5.5 | 5 | \$37 |
| Corn | Texas | 100 | Urea | Pre-plant | 5.0 | 5 | \$24 |
| Rice | Louisiana | 100 | Urea | Pre-flood | 11.6 | 12 | \$66 |
| Rice | Louisiana | 85 | Urea | Pre-flood | 12.8 | 16 | \$86 |
| Silage Corn | California | 100 | Urea | Sidedress | 27.5 | 32 | \$469 |
| Sorghum | Texas | 100 | Urea | Pre-plant | 8.1 | 8 | \$25 |
| Potato | North Dakota | 100 | ESN | At hilling | 5.6 | 6 | \$135 |
| Potato | North Dakota | 85 | ESN | At hilling | 12.0 | 12 | \$288 |

* Net income is the crop value minus the fertility program cost and does not account for non-fertility expenses.
** Profit change is the difference between net income of the respective program and the Control.

Fertility Programs

BiOWiSH has amassed a wealth of data on adding BiOWiSH® Crop Liquid to fertilizers. As the table above illustrates, using BiOWiSH® as a fertilizer enhancement may increase profitability for the farmer and optimize yield potential by improved nutrient uptake when considering best management practice fertility options.

