Stand Optimization

MICROBIAL TEAM TECHNOLOGY

How to Implement Microbial Health Program

Growing a productive crop is a 365 day process of healthy soil and plants. Our science-backed, farmer-proven microbial team technology is equipped to maximize the resources that lead to the greatest plant potential.

PHASE I: Residue Management

Fall: Meltdown *1 qt/a,* Environoc 501 *1 pt /a*

Spring: Meltdown *1 qt/a,* Environoc 501 *1 pt /a*

PHASE II: Planting

Environoc Seed Treatment
Environoc 401 In-Furrow *1 pt/a*
BW - Balance *1 pt/a*
BD - Sweet *1 pt/a*
BD - Biocast Broadcast pre/post planting *1 qt/a*

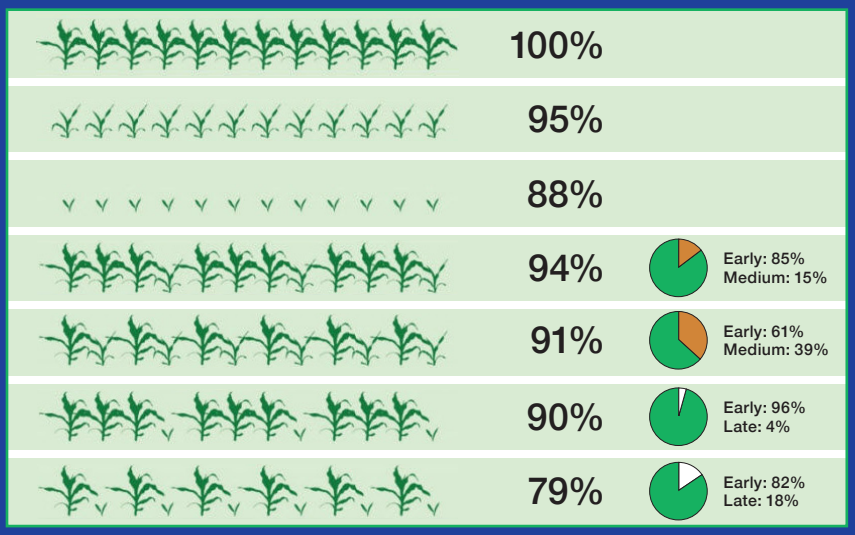
PHASE III: Foliar

BW - Balance *1 qt/a*
SG Advance *2 qt/a*
BD - Ntrust *48-64 oz/a*
Respite Rx *4 oz/a*
BD - Sweet *1 pt/a*

Value to the Crop

- Improves biological diversity and overall soil health
- Better germination emergence: uniform fuel processing by minimizing plant to plant competition for sunlight
- Increased rate of cell division, plant growth and vigor
- More efficient utilization of invested fertility dollars
- Provides a "slow release" fertilizer effect via efficient cycling of crop residue
- Reduces carbon tie up of soil nitrogen and micronutrients
- Enhances overall plant health by decreasing rates of stalk rot
- Creates platform for greater kernel size, weight and nutrient density at harvest
- Sets the stage to analyze, test, and determine limiting factors in maximizing crop yield

What is the impact of uneven emergence?



Data from Carter, P.R., E.D. Nafziger, and J.G. Lauer, Uneven emergence in corn (IL and WI), North Central Regional Extension Publication No. 344

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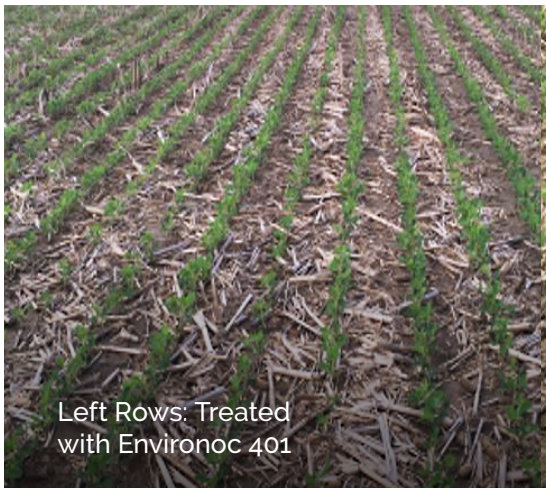
BIODYNE'S MICROBIAL TEAM TECHNOLOGY



Biodyne's Microbial Team Technology Capability

Over 200 Proprietary Non-Pathogenic, Non-GMO, and Naturally Ocurring

Diazotrophic Microbes
Nitrogen Fixation from Free N in Air

Ammonifying Microbes
Convert Organic N to Ammonia Form

Phosphate Solubilizing Microbes
Makes Unavailable P Available

Many Degradation Abilities
Cellulose, Lignin, Chitin, Starch, Waxes, Oils

Microbial Surfactant Production
Free up More Nutrients in Soil/Rhizosphere

Vitamin/Hormone
Vitamin Production and Facilitate Hormone Release

Siderophore Production
"Iron Magnets"; More Iron Availability in the Soil

Petroleum Hydrocarbon Bioremediation
Oil, Diesel, Gas, Soil and Groundwater

Pesticide and Herbicide Bioremediation
Specialized Remediation Capabilities

Fats, Oils, Grease, Common Organics Degradation
Wastewater, Pond Treatment

Sulfur Oxidizing Capabilities
Enhance Sulfur Oxidation in the Soil and Increase Available Sulfate

Nodulating
Nitrogen Fixing Symbiotic Relationship Nodules on Soybeans

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