

# ENVIRONOC 401



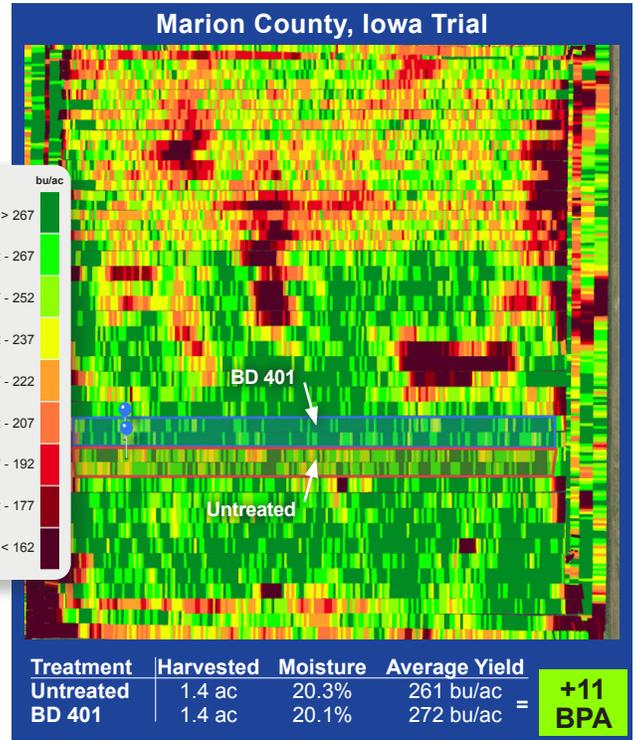
## MICROBIAL PLANT STIMULANT

In-furrow or 2x2 application | Rate: 16 oz per acre | Spring

## The natural force behind maximum growth & productivity.

**ENVIRONOC 401** strengthens your soil's symbiotic relationship with the plant, naturally maximizing growth and productivity. Made up of over 24 microbes, 401 has a diverse team of beneficial microbes which are non-pathogenic, not genetically-modified and 100% natural. After application, this robust team of microbes get to work in the soil, allowing the plant to solubilize nutrients and promote greater growth capabilities, all leading to untapped yield potential.

**What you'll see.** Results can be seen as soon as emergence with an increase in stand quality and uniformity. As the growing season continues the plant will root deeper and farther, increasing root mass to efficiently utilize the soil's available nutrients, and producing more, larger leaves to achieve for maximum photosynthesis.



**Guthrie County Trial**  
Hybrid: **DKC 62-98**

- Higher milk line, more days for grain fill
- Healthier plants
- **+17.5 BPA** Biodyne 401 advantage
- Fewer dented kernels

## AGRONOMIC WINS

**Plant Growth & Health**  
Improved plant vigor, emergence, stand quality and uniformity. Increased overall plant and leaf size.

**Increased Root Mass**  
Larger and deeper root mass for greater nutrient uptake abilities.

**Optimal Growing Conditions**  
Diverse microbe populations optimize the rhizosphere with an efficient plant and microbe relationship for ideal growing conditions.

**Improved Nutrient Release & Availability**  
Nutrient efficiency improved through microbial activity, maximizing soil productivity.

**Overall Yield Potential**  
Diverse microbe populations unlock soil and yield potential.

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## The 401 Microbial Team Capabilities

### NITROGEN FIXATION

Several microbes are able to convert freely available atmospheric nitrogen into a plant available form.

### NITROGEN MINERALIZATION

Several microbes are able to convert soil born nitrogen into plant available form. Mining the valuable N currently unavailable within the soil.

### PHOSPHOROUS SOLUBILIZATION

Several microbes have the ability to solubilize otherwise insoluble phosphorus and make it available to the plants.

### SURFACTANT PRODUCTION

Several microbes are able to reduce soil surface tension to free up more organic and inorganic nutrients.

### PLANT GROWTH PROMOTION

Several microbes have the ability to release hormones or hormone-like products that stimulate growth and other developmental activities.

### MICRONUTRIENT AVAILABILITY

Several microbes have the ability to enhance micronutrient availability, including siderophore production to help attract iron to the plant.

### DEGRADATION CAPABILITIES

Several microbes have the ability to degrade: cellulose, lignin, chitin, starch and other compounds present in the soil, improving soil potential.

## INDEPENDENT GROUP CORN TRIAL

South Central Iowa Yield Responses & Soil Health Analysis

GROWER	STARTER ONLY (BPA)	ENVIRONOC 401 (16 OZ) + STARTER (BPA)	RESPONSE WITH 401 (BPA)	<b>SOIL ANALYSIS SHOWED:</b> <b>Phosphorus +12%:</b> 6 lbs. P or 13.75 lbs. P205 more available on average per month.  <b>Potassium +18%:</b> 12 lbs. K or 14.52 lbs. K20 more available on average per month.
Montgomery County	250.0	255.6	+5.6	
Guthrie County	181.3	196.2	+14.9	
Webster County	208.4	216.1	+7.7	
Monroe County	265.0	265.0	0	
<b>AVERAGE</b>	226.18	233.23	<b>+7.05</b>	

## Microbial Power at Work

