

## ION<sub>fx</sub>™ MULTICROP

**For Use On: Corn, Sorghum, Small Grains (Foliar), Cotton, Canola and Flax**

ION<sub>fx</sub>™ is a mix of genetically identified and patented bacteria, along with archaea and fungi. While many microbes live naturally in a plant, this mix of microorganisms has been selected to support, enhance, or supplement plant functions. ION<sub>fx</sub>™ unlocks a plants ability to produce growth regulators and metabolites.

### Benefits:

- Increased yield
- Phosphate solubilization through microbial activity
- Reduced ethylene production (associated with aging and senescence)
- pH regulation
- Reduced Reactive Oxygen species
- General stress mitigation.
- Improved early vigor and less purpling
- Increases forage quality and yield
- Better heat and drought stress tolerance
- Increases occurrence of tillering and/or second ear with corn

## 2020 Warranty Program

*We stand behind our products. If you don't receive a 3.5 bu/a increase in corn on a side-by-side comparison using ION<sub>fx</sub>, Agrovive will replace your product for the following growing season!*

### PROGRAM DETAILS

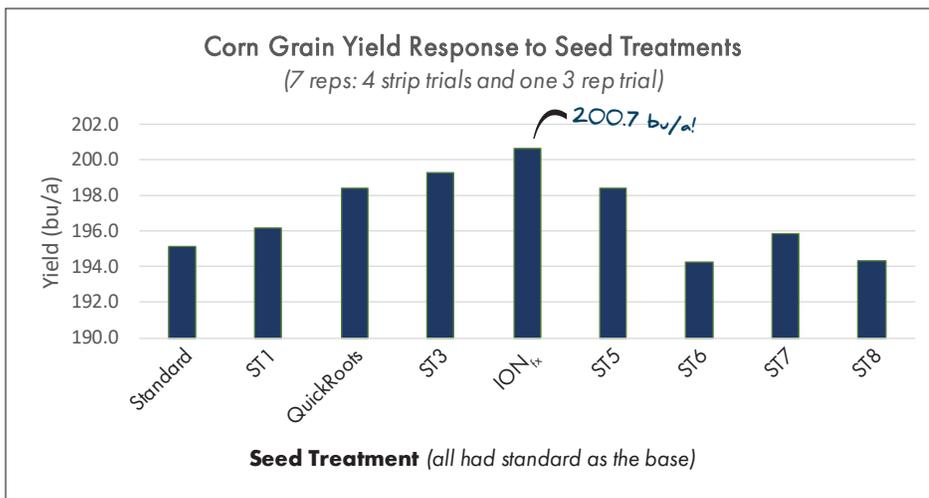
<b>Product:</b>	ION <sub>fx</sub> ™
<b>Crop:</b>	Corn
<b>Bushel Increase:</b>	3.5 Bushels per acre in side-by-side comparison
<b>Minimum Treated Acres:</b>	160 Acres
<b>Minimum Untreated Acres:</b>	2 Acres <i>(must be immediately adjacent to the treated test in same field with similar soil types)</i>

### REQUIREMENTS

**Contact your local distributor for full program details, or visit [yieldmastersolutions.com](http://yieldmastersolutions.com)**

## Modes of Action

- Plant pH regulation through the ability to exchange electrons in chemical pathways
- pH regulation overcomes “slowdowns” during the heat of the day
- A unique microbe group triggers larger leaves early on and a thicker stalk later
- Movement of lignin on vascular bundles to the outer rind of the stem. This may aid in movement of nutrients and water through the plant
- Bacteria elicit a hormone response to insert the ear higher and support a second ear
- Reactive Oxygen Species (ROS) response microbes become more active later in the season
- Stresses such as heat or drought increase become mitigated
- Slow acting, continuous action microbes facilitate micronutrient availability within the plant



## 2019 Research Data

**Locations:** 4 Locations throughout Minnesota & South Dakota

**Replications:** 7 replications consisting of 4 separate strip trials, and 1 field trial with 3 replications

**Results:** An average of 5.4 bu/a advantage over standard treatment using IONfx Seed Coat at recommended rate

## Application Rates

**Seed (1 Gallon Jug):** 1 fl. oz. per 80,000 seeds via seed treater. Can be co-applied with other products

**In furrow:** 16 fl. oz. per acre and minimum of 5 gpa rate

**Foliar:** 16 fl. oz. per acre with 10 to 20 gallons water. May be tank mixed with other products. For corn or sorghum, V3-V7 would be ideal application stage

## Guaranteed Analysis

### Nonplant food:

Pseudomonas fluorescence  $1.0 \times 10^5$  CFU/ml

Microorganisms exempt from CFR requirements:  
40 CFR 725.

**Packaging:** 4x1 gallon jugs, 2 x 2.5 gallon jugs, 275 gallon bulk shuttles

