Ocean Organics®

Guarantee®
Seaweed Extract

Increases Corn Yields in Field Trials

Ocean Organics seaweed extracts improved corn yields 4-8%

TRIALS 1 & 2

CROP
Corn, *Zea mays*

Variety: Pioneer P0636AM, Roundup Ready

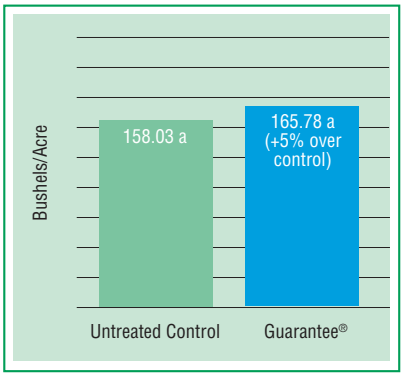
STUDY OBJECTIVES
- To evaluate the effects of Ocean Organics seaweed on yield and plant growth of corn in field studies in 2014 and 2015.

LOCATION/SCIENTISTS
University of Northern Iowa
Cedar Falls, IA
Investigator: Dr. Bert Schou, *ACRES (Agricultural Custom Research)*
Study Director: Sarah Williams, Ph.D., *Ocean Organics*

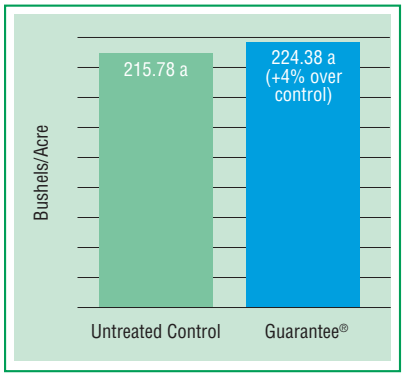
STUDY DESIGN
Both trials were set up as a Randomized Complete Block (RCB) design with four replications. More detail about timing of seaweed applications follows.

2014 RESULTS
In 2014, application of Ocean Organics seaweed resulted in a 5% numerical yield increase. Seaweed was applied in furrow at planting (5/12/14) at 2 quarts/acre, followed by one foliar application (also 2 qt/acre) between V6 and R1 (7/7/14). This trend of increased corn yield in plots treated with Ocean Organics seaweed was repeated in three field trials.

Means followed by same letter do not significantly differ (P=.05, Student – Newman-Keuls).



2015 RESULTS
Application of Ocean Organics seaweed resulted in a 4% numerical yield increase in 2015. Seaweed was applied in furrow at planting (5/3/15) at 2 quarts/acre, followed by two foliar applications (also 2 qt/acre) at V6 (6/25/15) and R3 (7/6/15). Numerical yield increases were similar in 2014 and 2015.



Continued

TRIAL 3

CROP
Corn, *Zea mays*

LOCATION/SCIENTISTS
Michigan
Investigator: Dr. Wilhm, *AgriLiquid*
Study Director: Art Dawson, Ph.D; Greg Cosman, BSc. Agr, *Ocean Organics*

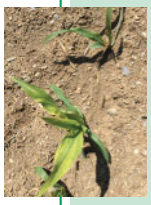
STUDY DESIGN
An Ocean Organics seaweed extract for formulators was tested on corn in Michigan. Technical Grade Seaweed Extract Complex was applied at 0.5 gal/A as an in-furrow treatment with the fertilizers listed below, followed by foliar application at V8 and VT growth stages.

Due to varying terrain within this particular field, the trial included four replications with adjacent check plots. Test plots were in between two plots that did not receive the seaweed treatments. Plots that did receive seaweed treatments were compared to plots on either side that did not receive seaweed. This method using adjacent check plots was particularly advantageous for this trial due to several excessively rainy periods that resulted in varying degrees of standing water at times during the trial. Plot size consisted of 6 rows x 100 ft (with middle 4 rows harvested). The trial was performed on a new piece of ground, in order to avoid previous plot carryover potential.

As this grower cooperative trial was coordinated by AgriLiquid Fertilizers, they included several of their products in all treatments, including controls: 4 gal Pro-G + 4 gal Sure K + 1 qt M500. At planting on May 8, the product called High NRG N was applied 20 gal PRE and 26 gallon sidedress.

RESULTS
Ocean Organics Technical Grade Seaweed Extract Complex (SPE-C) improved corn yield 8.2%.

HERBICIDE DAMAGE RECOVERY
Justin Choiniere, President of Northeast Agricultural Sales (Detroit, Maine) reported this incident.



"We custom apply pesticides to a variety of different crops all across the state of Maine. In one particular instance, we ran into some herbicide injury on silage corn in Clinton, Maine in June 2016. After applying 3 ounces per acre of a popular herbicide, and 2 quarts per acre of another herbicide and 1/2 ounce of a fungicide, 4 days later, the then 6 inch tall corn exhibited obvious phytotoxicity shown in these pictures.

Based on a suggestion from Ocean Organics Corp, we applied 2 pints of Guarantee® Organic foliar per acre. Within a week a noticeable plant health response was evident. By the end of the growing season, it was hard to tell which hybrids in the plots had been affected by the injury. Growth response was so great, that both Caragh Fitzgerald, & Rick Kershbergen (U.Maine extension agents) had to double check their notes as to which hybrids had been damaged.

Ocean Organics is a manufacturer of high performance, scientifically proven seaplant-extract based biostimulants, plant growth materials and granular fertilizers. Our state-of-the-art products contain unique and proprietary constituents. Founded in 1977, we are the developers and manufacturers of the Emerald Isle foliar fertilizers and biostimulants, now owned and distributed to professional turf and ornamental markets by Lebanon Turf Products. Our materials have been tested in over 25 universities and independent laboratories.

Ocean Organics®
Manufacturing
Waldoboro, Maine • 888-312-0106
Administration
Ann Arbor, Michigan • 800-628-GROW (4769)
oceanorganics.com