

# Middlesex Soil & Crop

2009 Major Grant Report

Evaluation of Crop Growth Promoting  
Products in Field Crops

# Purpose:

- To conduct a preliminary evaluation of the effects of the various crop growth promoting products for use in field crops.

# Products tested:

- are active carbon compounds derived from natural sources of carbon and modified to be used with liquid fertilizers and herbicides.
- Carbon Power from Floratine BioSciences Inc
- Humika from Alpha Agri-Products, Inc
- Humic Carbon & AgriGro from MTS Farm Supplies

# 2009 Results

- Carbon Power ([Floratine BioSciences Inc](#))
  - used in Field Corn mixed with liquid starter fertilizer and applied to seed.
    - 3 sites
    - No response
- (2008 replicated trials showed some response)

# 2009 Results

- Humic Carbon + Agri-Gro (MTS Farm Supplies)
- 2 sites in soybeans
- 1 site in kidney beans
- No response in soybeans
- Significant yield response in kidney beans  
( 37% greater than check. One site only!)

# 2009 Results

- Humika (Alpha Agri-Products, Inc)  
used in Field Corn mixed with liquid starter  
fertilizer applied to seed.
  - 3 (one rep) sites with one cooperator
    - Average 3.9 bu/acre increase
      - One site had 8.8 bu/ac response
  - (Humika is being tested in other projects)

# Further Work

- MSCIA will continue trials in field corn and kidney beans in 2010.
- Analysis of soil from 2009 sites that responded to determine if soil organic matter, pH, phosphorus levels have an effect on response.
- Soil test all sites in 2010