

Field Test Results (Corn)–2011



CHI Powder/Granule Increased Corn Yield

Objective: *To use organic matter (humic acids) to increase the yield of corn*
Collaborator: *Melmont Bean & Seed, Nampa, Idaho, US*
Period: *2011*
Tested products: *CHI Powder/Granule (source of slow-release humic acids)*
Tested crop: *Corn*
Locations: *Nampa, Idaho, US*

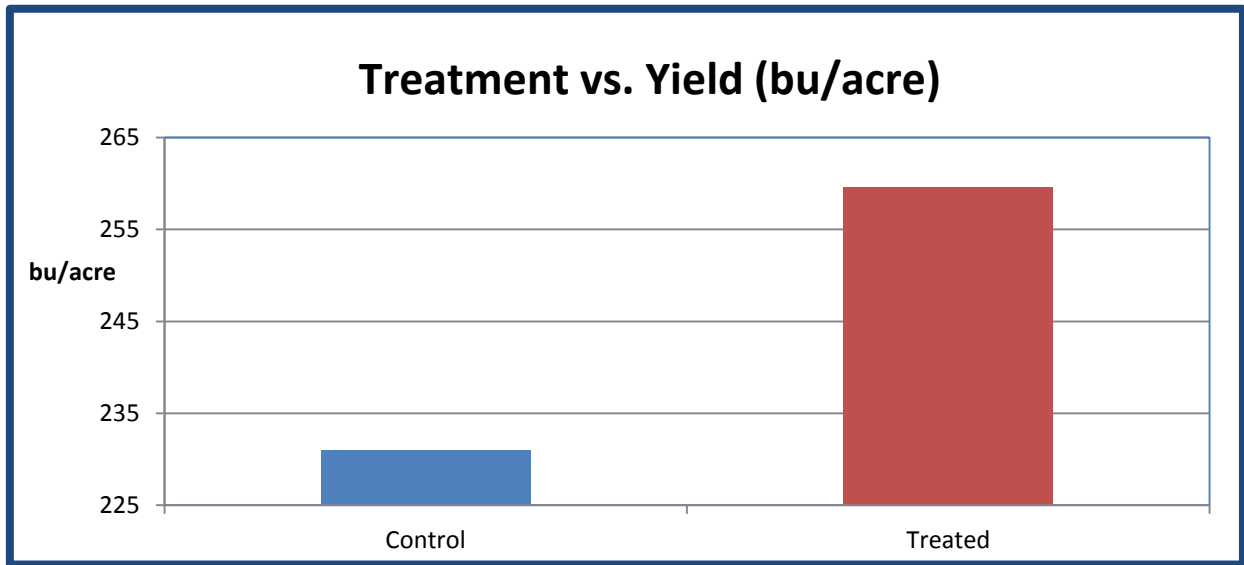
Design of Experiment

- Control (25 acres): 0 lbs CHI Powder/Granule /acre + 150N-50P₂O₅-90K₂O lbs/acre
- Treated (25 acres): 300 lbs CHI Powder/Granule /acre + 150N-50P₂O₅-90K₂O lbs/acre

CHI Powder/Granule was applied in fall (after 2010 harvest) for 2011 growing season. This product provided a slow-release source of humic acids, breaking down naturally in soil. In 2011, 120N-50P₂O₅-90K₂O lbs/acre nutrients were applied during seeding + 30N lbs/acre side-dress.

Results

Yields of corn increased from 231.0 (control) to 259.6 (treated) bu/acre, or over 12% difference with the application of organic matter (humic acids).



Conclusions

The addition of organic matter (humic acids) increased the yield of corn significantly. Recommended rate for CHI Powder/Granule was 300 lbs/acre.