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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

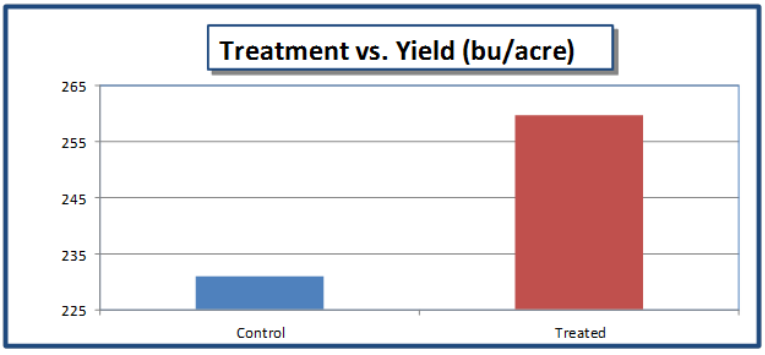
DESIGN OF EXPERIMENT

- **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.

2014

CHI LIQUID CARBON INCREASED CROP PRODUCTION OF CORN

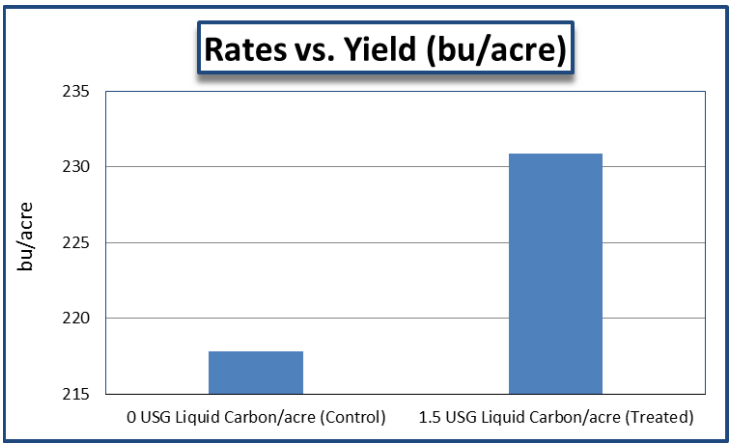
- **Objective:** To use organic matter (humic acids) to increase yield of corn
- **Collaborator:** Tranquility Agriculture, Brownsburg, Quebec, CANADA
- **Period:** May to October, 2014
- **Tested product:** CHI Liquid Carbon (source of humic acids)
- **Tested crop:** Corn of DK 34-47
- **Location:** Brownsburg, Quebec, CANADA
- **Soil:** Clayey soil, organic matter = 6.8%, pH = 5.0
- **Test plots:** 3 acres

DESIGN OF EXPERIMENTS

- Control: 3 tons/acre lime applied side banded before seeding; 75-80-80 lbs/acre N-P-K broadcasted before seeding; 3-10-1 lbs/acre liquid N-P-K applied in row seed place
- Treated: 3 tons/acre lime applied side banded before seeding; 75-80-80 lbs/acre N-P-K broadcasted before seeding; 3-10-1 lbs/acre liquid N-P-K + 1.5 USG/acre CHI-Liquid Carbon applied in row seed place
- Yield for each plot was measured (1 bushel = 60 lbs)

RESULTS

CHI Liquid Carbon at 1.5 USG/acre increased yields of corn by 6% from 217.8 to 230.9 bu/acre.



CONCLUSIONS

The yield of corn was significantly increased by adding small amount of organic matter (humic acids). CHI-Liquid Carbon at 1.5 USG/acre was economical, practical, and compatible with most nutrients.