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REPLENISHING EARTH'S ENERGY

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Field Test Results (Wheat)-2012

CHI Liquid Carbon 9-5-3 Increased Crop Production of Wheat

Objective:	*To use organic matter (humic acids) chelated nutrients to increase yield of wheat*
Collaborator:	*Battle River Research Group, Camrose, Alberta, CANADA*
Financial support:	*Canada Revenue Agency (Scientific Research & Experimental Development)*
Period:	*May to September, 2012*
Tested product:	*CHI Liquid Carbon 9-5-3 (source of humic acids and 9-5-3 nutrients)*
Tested crop:	*Wheat - "Harvest" variety*
Location:	*Camrose, Alberta, CANADA*
Soil:	*loam with solonetzic clay underneath, 6% organic matter, pH = 5.8*
Test plot:	*11 x 22 ft^2 (3.3 x 6.6 m^2)*

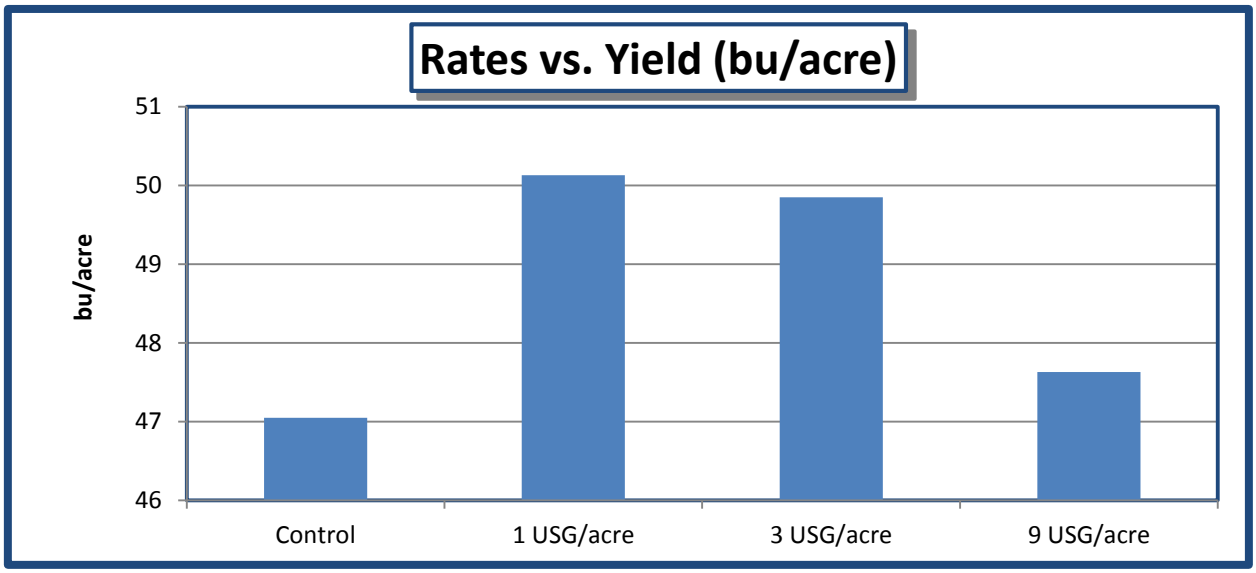
Design of Experiments

- *Treatment 1: 30 lbs N/ acre + 10 lbs P_2O_5/acre*
  Treatment 2: 30 lbs N/ acre + 10 lbs P_2O_5/acre + 1 USG CHI Liquid Carbon 9-5-3/acre
  Treatment 3: 30 lbs N/ acre + 10 lbs P_2O_5/acre + 3 USG CHI Liquid Carbon 9-5-3/acre
  Treatment 4: 30 lbs N/ acre + 10 lbs P_2O_5/acre + 9 USG CHI Liquid Carbon 9-5-3/acre

- *Nutrients and CHI Liquid Carbon 9-5-3 were applied during seeding*
- *Each treatment was replicated 4 times, i.e. 4 test plots per treatment*
- *Yield for each test plot was measured, and results from 4 test plots of the same treatment were averaged. Yields were presented as bu/acre (1 bushel = 60 lbs)*
- *Note: each USG of CHI Liquid Carbon 9-5-3 added 0.9, 0.5, and 0.3 lbs of N, P_2O_5, K_20 / acre, respectively to soil*

Results

The best result occurred when 1 USG/acre of CHI Liquid Carbon 9-5-3 was applied, in which over 6.5% yield increased was observed over control. Increased rates did not result in better yields.



Conclusions

The yield of wheat was significantly increased by adding small amount of organic matter (humic acids) chelated nutrients. Recommended rates for CHI Liquid Carbon 9-5-3 were 1 to 2 USG/acre, applied once to soil during seeding or on seedling stage, or sprayed on fully grown plants prior to 10% flowering.