

RESPONSE OF CANOLA TO ADDITION OF ORGANO HUME (HUMIC ACID) AND MINI-GRANULE COARSE HUMALITE: AN ON-FARM STUDY



INVESTIGATOR

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OBJECTIVE(S)

To test the efficacy of recommended application rates of granular humalite and its HA extract (Organo Hume) on performance of canola crop and soil properties following farmer's own management practices.

CERTIFICATIONS

Black Earth Humic products are:

- » Listed by OMRI
- » Registered with CFIA
- » Certified for use for NOP
- » Certified by the CDFA



EXPERIMENTAL CONDITIONS

Crop Variety: Canola (Brassica napus variety 5430)

Location: Ryley, Beaver County, Alberta

Test Period: May-September 2014

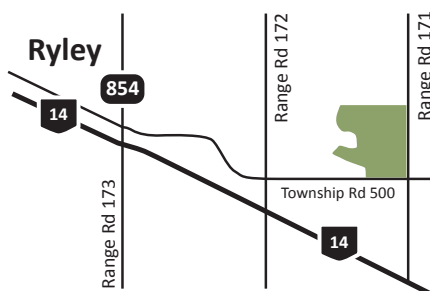
Soil Conditions: SOM (5.5%), pH (5.5), EC (0.15 dSm⁻¹), available nutrients (mg/kg): ammonium N (7.2), nitrate N (11.2), P (22.5), K (151.7) CEC (23.9) meq/100g, SAR (3.5), % saturation (53.5), loam texture

Treatment(s): (1) 40 lb/ac Coarse Granular Humalit + 1 gal/ac Humic Acid (12%) + fertilizer (2) fertilizer only (control)

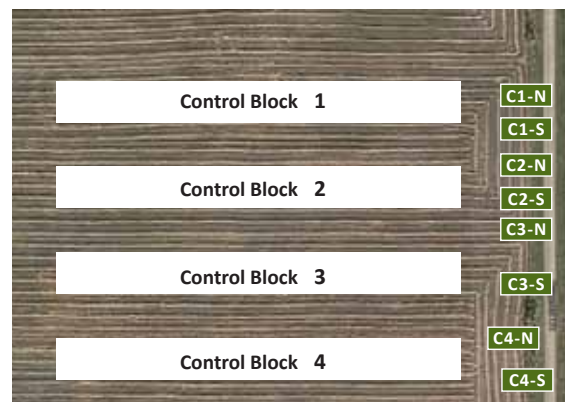
Experimental Design: A strip plot design with four replications. Dimension of each strip was 57 feet by approximately 2600 feet.

Planting Details: Seeds sown at 5 lb/ac; humalite (40 lb/ac) applied at planting and 1 gal/ac Organo Hume one months after planting; whole field received 84 lb/ac of a fertilizer blend (12-18-0-10S) and anhydrous ammonia at 75 lbs N/ac

Parameters Measured: Total above ground biomass, soil parameters



Location of test farm and layout of experiment. C1-N, C1-S, C2-N, C2-S, C3-N, C3-S, C4-N, C4-S mark the eastern side corner pegs for each block.



RESULTS

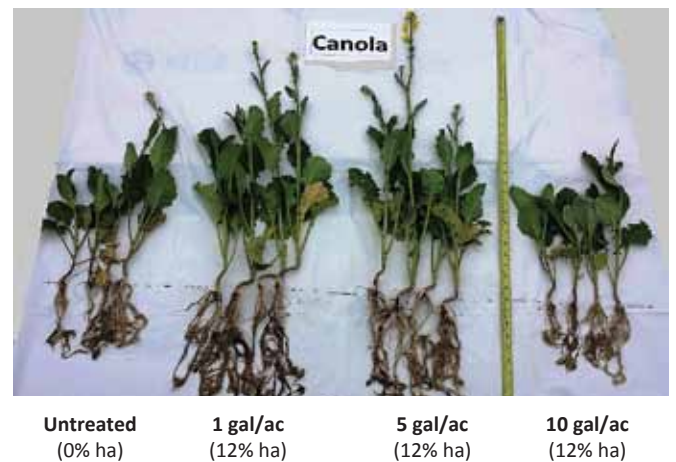
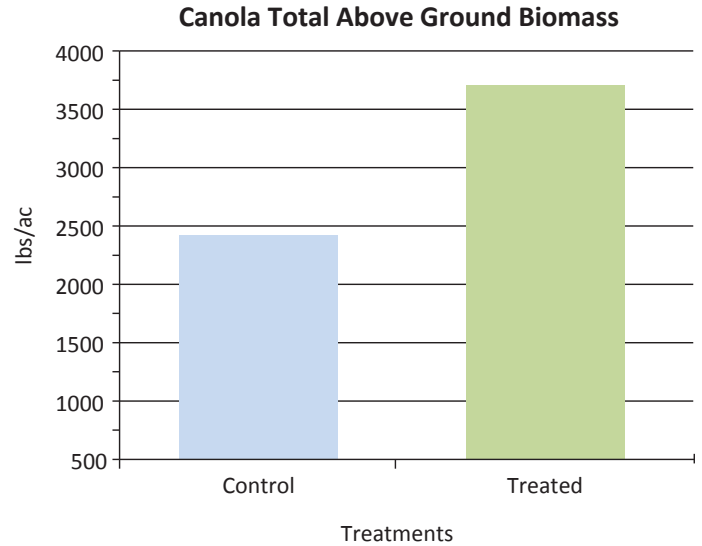
As the result of treatment application, increases in canola above ground biomass were observed.

CONCLUSION

The preliminary indication from the first season result is that incorporation of humalite at 40 lbs/ac and subsequent foliar applications of Organo Hume Liquid at 1.0 gal/ac increased total above ground dry biomass of canola by 52.9%.

COMMENTS


Due to some work-related and weather-related inconvenience the treated portion did not receive a recommended second round application of 1.0 gal/ac 12% HA Organo Hume.



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