

Moly In-furrow on Soybeans

EXPERIMENT INFO

Planted: 06/03/2020

Harvested: 10/12/2020

Cultivar: RX Torque with Fortenza (RM 2.3)

Population: 165,000 seeds/acre

Row Width: 30"

Prev. Crop: Corn

Plot Size: 12 rows x 675'

Replications: 3

Soil Data

pH: 5.7 – 6.8

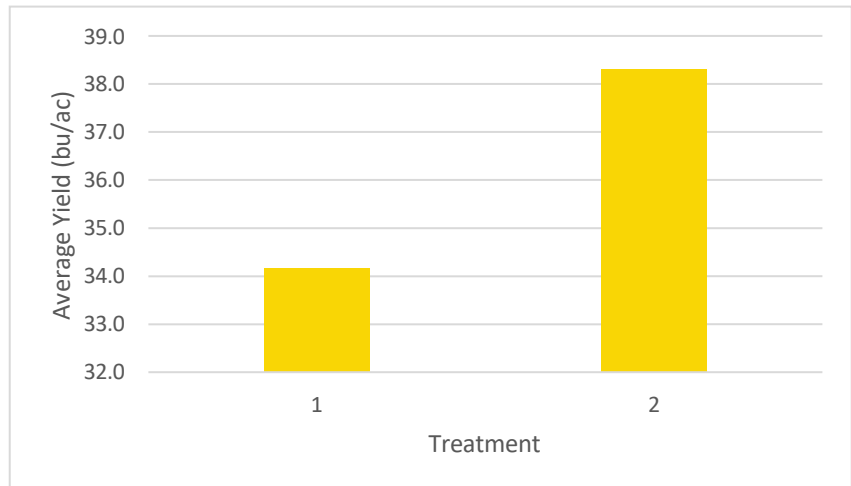
CEC: 5.2 – 7.3

% OM: 1.3 – 1.9

%P: 63 – 81

% K: 2.9 – 3.7

% Mg: 5.3 – 11.8



Treatments

- 1) Untreated
- 2) 1 L/ac molybdenum + 5 GPA H₂O

Conclusions: In previous MGRS trials involving in-furrow applications of molybdenum on soybeans, we saw changes in the root architecture. Typically, the application of molybdenum drives the roots deeper. This year, the molybdenum application brought a four-bushel/acre increase over the untreated check. We hypothesize the changes in the root architecture benefitted the soybean crop in the dry conditions this year.

Economics: The treatment of 1 L/ac molybdenum provided the strongest economic return. This treatment generated an extra **CAD\$36.03/acre** in revenue over the untreated check.

For these calculations, the fertilizer pricing was based on April 2020 retail prices. Soybean pricing was based on the Grain Farmers of Ontario's average weighted price for Oct. 2020 of CAD\$473.87/tonne.

