



2020
FIELD TRIAL RESULTS



Table of Contents

1. Starter Fertilizer on Corn
2. Moly In-furrow on Soybeans
3. Foliar Fertilizer & Fungicide on Soybeans

Starter Fertilizer on Corn

EXPERIMENT INFO

Planted: 05/14/2020

Harvested: 11/20/2020

Hybrid: MZ 4280DBR and MZ 4049SMX, both with Fortenza (both 2975 CHU)

Population: 32,000 seeds/acre

Row Width: 30"

Prev. Crop: Soybeans

Plot Size: 12 rows x 900'

Replications: 3

Sidedress Application

06/20/2020

30 GPA High NRG-N

Nitrogen Application

06/23/2020

broadcast 20 GPA High NRG-N using 5-band streamer nozzles

Soil Data

pH: 5.8 – 7.3

CEC: 5.3 – 13.5

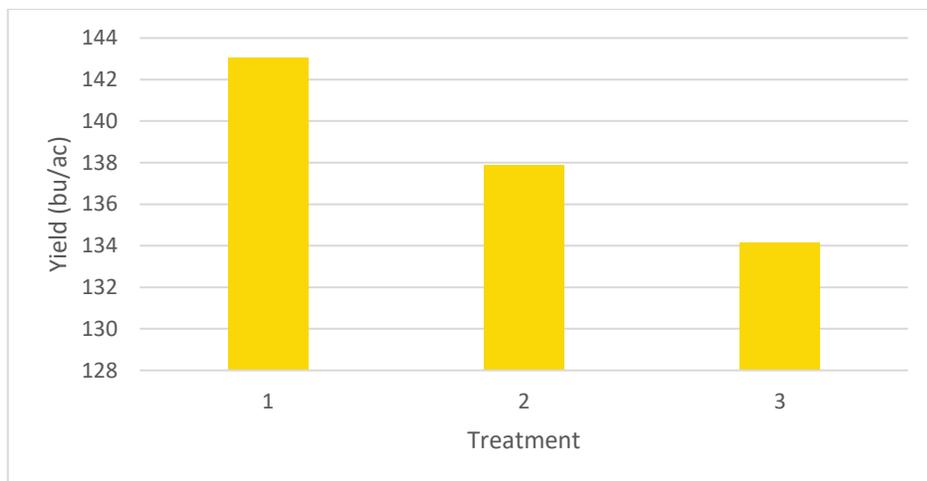
% OM: 0.6 – 2

%P: 9 – 30

% K: 0.9 – 3.8

% Mg: 3.5 – 17.1

Ca: 650 – 2580 ppm



Treatment 1: 2 GPA Pro-Germ + 1 L/ac eNhance + 1 L/ac Micro 500 + 1 L/ac Premium Ca + 2 GPA H₂O

Treatment 2: 2.5 GPA Pro-Germ + 2.5 GPA Kalibrate + 1 L/ac eNhance + 1 L/ac Micro 500

Treatment 3: 4 GPA 7-24-6-1S + 0-0-7-3Ca

Average Moisture/Treatment

Treatment	Avg. moisture (%)
1	17.4
2	16.8
3	17.6

Conclusion: In previous trials, when the soil test data was below 1100 ppm, we saw a yield advantage with the inclusion of calcium in a corn starter program. In this trial, we sought to make direct comparisons between AgroLiquid and competitor products. Treatment 1 provided a nine-bushel/acre yield increase over Treatment 3.

Economics: Treatment 1 generated an extra **CAD\$22.19/acre** in revenue over treatment 3.

For these calculations, the fertilizer pricing was based on April 2020 retail prices. Corn pricing was based on the Grain Farmers of Ontario's average weighted price for Oct. 2020 of CAD\$205.83/tonne. The cost of drying to 15.5 per cent moisture was calculated using the Manitoba Agriculture's Grain Drying Cost Calculator (mbdiversificationcentres.ca/grain-drying-cost-calculation-tool/.)

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

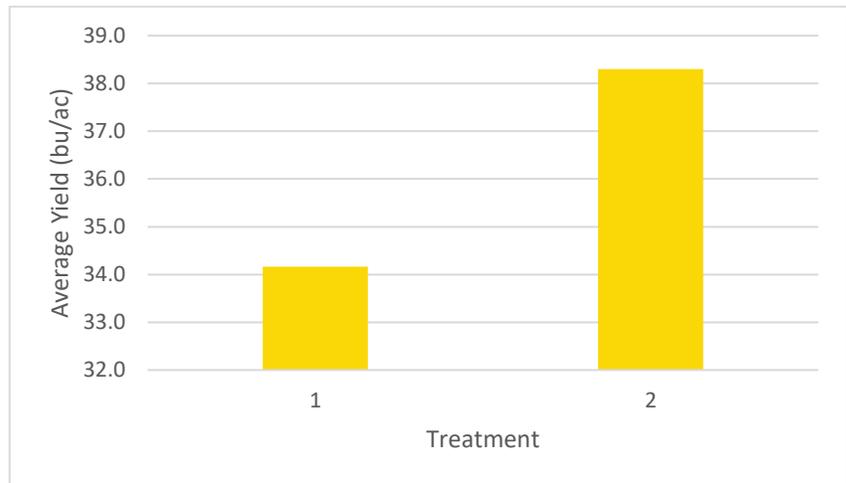
CEC: 5.2 – 7.3

% 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.



Foliar Fertilizer & Fungicide



on Soybeans

EXPERIMENT INFO

Planted: 07/29/2020

Harvested: 10/09/2020

Cultivar: DH 530 (RM 1.2)

Population: 200,000 seeds/acre

Row Width: 7.5"

Prev. Crop: Corn

Plot Size: 30' x 1,608'

Replications: 3

Foliar Application

Date: 08/13/2020

Soybean Stage: R3

Soil Data

pH: 6.0 – 7.6

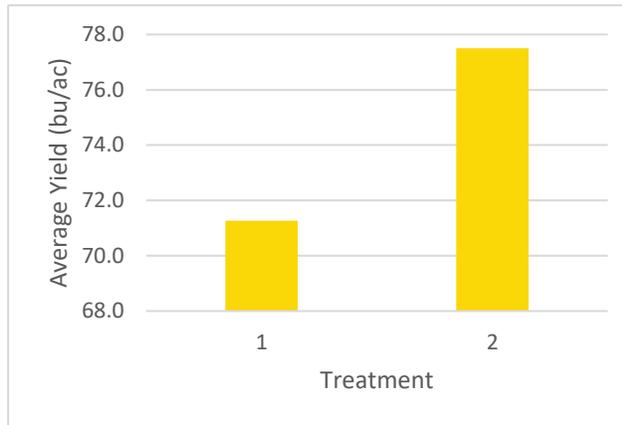
CEC: 5.6 – 12.9

% OM: 1.8 – 4.7

%P: 11 – 45

% K: 2.5 – 3.8

% Mg: 6.8 – 16.9



Treatment 1: Untreated

Treatment 2: 3 GPA FertiRain + 100 mL/ac Priaxor

Conclusion: Throughout MGRS trials involving foliar applications on soybeans, FertiRain has provided a consistent yield boost. In this trial, the 3 GPA FertiRain + 100 mL/ac Priaxor provided a six-bushel/acre yield increase over the untreated check.

Economics: The treatment with 3 GPA FertiRain + 100 mL/ac Priaxor generated an extra **CAD\$22.08/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 Farmer of Ontario's average weighted price for October 2020 of CAD \$473.87/tonne.