

## **EXPERIMENT INFO**

Planted: 05/24/2019

Harvested: 12/21/2019

Hybrid: MZ 4368SMZ with Fortenza (3100 CHU)

Population: 33,000 seeds/acre

Row Width: 30"

Prev. Crop: Black Beans

Plot Size: 12 rows x 1,300'

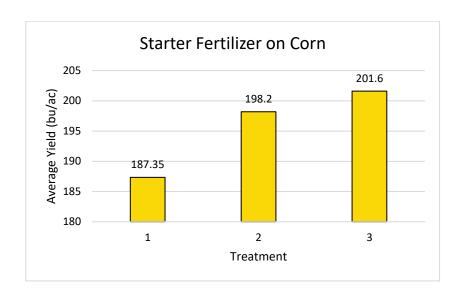
Nitrogen Application
07/15/2019
broadcast 15 GPA High NRG-N
using 5-band streamer nozzles

Sidedress Application 07/07/2019 35 GPA High NRG-N

## Soil Data

pH: 6.5 - 6.9 CEC: 4.9 - 6.7 % OM: 1.5 - 2.1 %P: 12 - 16 % K: 1.6 - 3.7 % Mg: 10.5 - 16.8 % Ca: 56.1 - 68.0

## **Starter Fertilizer on Corn**



## **Treatments**

- 1) 3 GPA ProGerminator + 3 GPA Kalibrate + 1 L/ac eNhance + 1 L/ac Micro 500
- 2) 3.7 GPA ProGerminator + 3.7 GPA Kalibrate + 1.1 L/ac eNhance + 1.1 L/ac Micro 500
- 3) 4.6 GPA ProGerminator + 4.6 GPA Kalibrate + 1.5 L/ac eNhance + 1.5 L/ac Micro 500

**Conclusions:** While Treatment 3 provided the highest yield at **201.6 bu/ac**, Treatment 2 provided the best economic return at **198.2 bu/ac**. The additional fertilizer in Treatment 3 did not provide enough of a yield advantage to make the additional fertilizer cost pay off.

**Economics:** Treatment 2 provided the strongest economic return. Treatment 2 generated an extra **CAD\$36.23/acre** in revenue over Treatment 1, while Treatment 3 generated an extra **CAD\$26.70/acre** in revenue over Treatment 1.

For these calculations, the fertilizer pricing was based on March 30, 2019 retail prices. Corn pricing was based on the Grain Farmers of Ontario's average weighted price for Oct. 2019 of CAD\$220.52/tonne. Finally, the cost of drying to 15.5 per cent moisture was calculated using Manitoba Agriculture's Grain Drying Cost Calculator (<a href="mailto:mbdiversificationcentres.ca/grain-drying-cost-calculation-tool/">mbdiversificationcentres.ca/grain-drying-cost-calculation-tool/</a>.)