Testing AnneMaxx™ Products in Canola
in St. Brieux, Saskatchewan in 2025
Research Project 2 – Final report

Abstract

Large plot field trials conducted in 2025 in St. Brieux, Saskatchewan evaluated the agronomic performance and economic viability of AnneMaxx™ (Annelida) granulated product for canola. The experiments employed a randomized complete block design with three replications.

The Annelida AnneMaxx™ Biome product outyielded the control by 5.3 % and generated a return on investment of 67%. Use the AnneMaxx™ products at recommended rates and reduced fertilization levels to boost yield and maximize cost-efficiency.

Introduction

Field trials of Annelida products are required to obtain objective efficacy data that can support sales, marketing, and regulatory submissions. This program comprised large-plot trials on locally important crops, conducted by independent third-party growers in Canada.

Goal

To evaluate the impact of AnneMaxx™ granular product on the yield of canola in Saskatchewan in 2025.

Materials and methods

The trials were performed by an undisclosed third party on their own initiative. Annelida did not provide any payments to the grower for the assessments. The study was planted in St. Brieux, Saskatchewan in 2025 on a private farm.

The treatments for both crops included:

1. Control.
2. Annelida granular product: AnneMaxx™ Biome applied in furrow at 10 kg/ac.
3. Undisclosed competitor's product applied in furrow.

The grower followed the typical growing practices for the area. The experimental design was a Randomized Complete Block Design (RCBD) with three replications. Each plot measured 10 m x 300 m and had 24 rows (Fig. 1).

Figure 1. Aerial view of the trials

Yield was measured at maturity in bu/ac and corrected to standard moisture.

Data analysis

The data were analyzed using an ANOVA (Analysis of Variances) method for RCBD. Treatments were used as fixed factors. The response was yield. The effects of replications were attributed to the error term for the variance. The least-significant-difference (LSD) was computed at $P<0.05$ and is displayed as error bars on the graphs.

Return-on-investment (ROI) calculations were based on the following cost and revenue assumptions:

- Fertilizer costs: $160/ac.
- AnneMaxx™ Biome product price (MSRP): $27/ac.
- Canola commodity market price: $0.62/kg

These parameters were used to estimate net returns for each treatment by comparing the additional revenue generated from yield gains against the incremental input costs of reduced fertilizer rates and AnneMaxx™ applications.

Results and Discussion

Visually, after flowering the plots with the granular treatment looked marginally better than the control but similar to the competitor's product (Fig. 2-4). There were more pods on secondary branches, and the pods appeared fuller and better formed.

Figure 2. Control

Figure 3. Competitor

Figure 4. AnneMaxx™ Biome

The Annelida product delivered a 5.3% yield increase over the control, while the competitor product produced a 2.5% yield increase (Fig. 5)

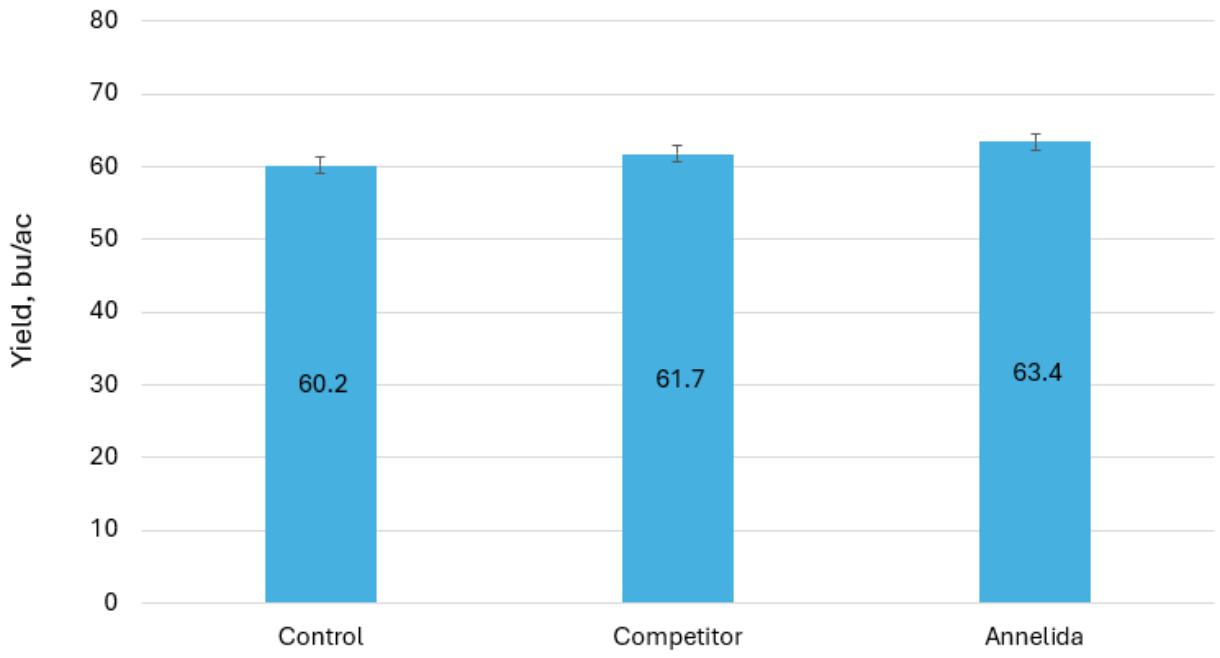

Figure 5. Yield of canola by treatments

The treatment generated a yield gain valued at $45 per acre. After subtracting the input cost, the net saving amounts to $18 per acre. This translates into an ROI of 67%, meaning that each dollar spent on the formulation yields approximately $1.67 in return (Fig. 6).

The monetary gain reflected a substantive increase in grain production, indicating that the treatment delivers a meaningful agronomic benefit.

Figure 6. ROI in wheat by treatments

Parameter	Annelida AnneMaxx Biome
AnneMaxx cost, $/ac	27.00
Yield gain, $/ac	45.00
Savings, $/ac	18.00
ROI, %	67%

The Annelida AnneMaxx™ Biome product provided a clear financial advantage for canola under the tested conditions, with positive net savings and a solid ROI that make it an attractive option for growers seeking to boost yields without incurring excessive costs.

Conclusions

The Annelida AnneMaxx™ Biome product outyielded the control by 5.3% and generated a return on investment of 67%.

Recommendations

Use the AnneMaxx™ products at recommended rates and reduced fertilization levels to boost yield and maximize cost-efficiency.

References

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