Pea Seed Treatment Trial

Trial ID: 2025-PST01 – R.M. of Morris

Objective: Quantify the agronomic and economic impacts of seed treatments in field peas compared to bare seed.

Summary: There was no significant yield difference between seed treated with EverGol Energy® and untreated seed. While the average root rot rating incidence (% of plants infected) for both treatments was 77%, the root rot severity remained low (<1.5 on a 0-9 scale) due to dry spring conditions. Due to the lack of yield response with the seed treatment compared to untreated, there was a decrease in profit equivalent to the increase in seed treatment product cost. Aphanomyces soil test was positive in high-risk (low lying) areas.

Trial Information

Treatment	EverGol Energy® vs. Untreated
Soil Texture	Clay
Previous Crop	Wheat
Tillage	Conventional Tillage
Seeding Equipment	60 ft Disc Drill
Seeding Date	4/30/2025
Variety	AAC Delhi
Row Spacing	10 in.
Harvest Date	8/16/2025

Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	39.4	34	47	45.9	166.3
Normal	68.18	90.6	68.11	60.53	287.42
% Norm	58%	38%	69%	76%	58%

Germination ǂ and Plant Population

	Germination	Population (plants/ac)
EverGol Energy	79%	262,772
Untreated	91%	250,353

ǂ Germination testing was conducted on seed sampled after treatments were applied, but before moving through seeding equipment.

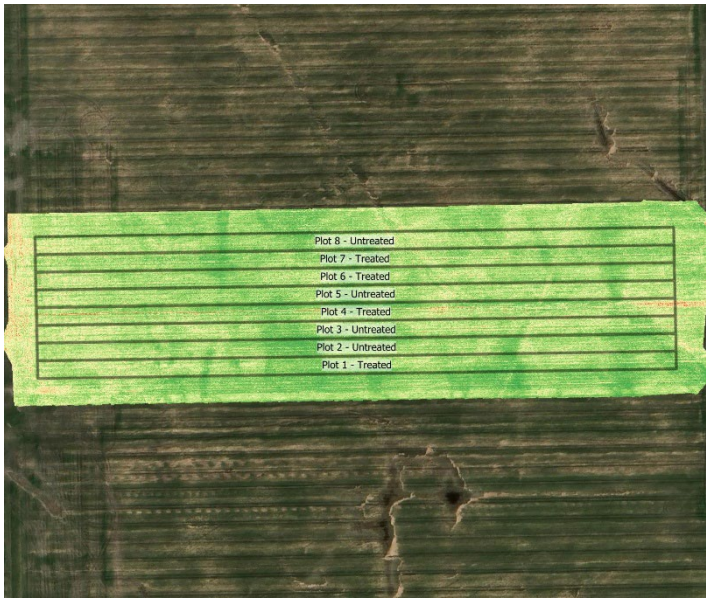
Summary of Root Rot Rating at V5 ǂ

	Incidence	Severity
EverGol Energy	65%	0.8 A
Untreated	88%	1.2 A

ǂ Severity 0-9 rating scale; Incidence= Percent of plants infected. Averages followed by different letters are significantly different at α =0.05

Spring Aphanomyces soil test positive: low levels found in high-risk areas of the field. None detected in low-risk areas.

NDVI Field Image July 17

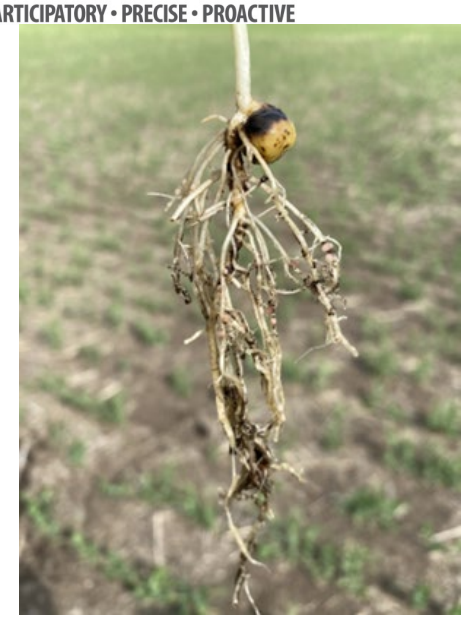


[Additional On-Farm Network Research Reports]

MANITOBA Pulse Soybean GROWERS
T 204 745.6488
www.manitobapulse.ca

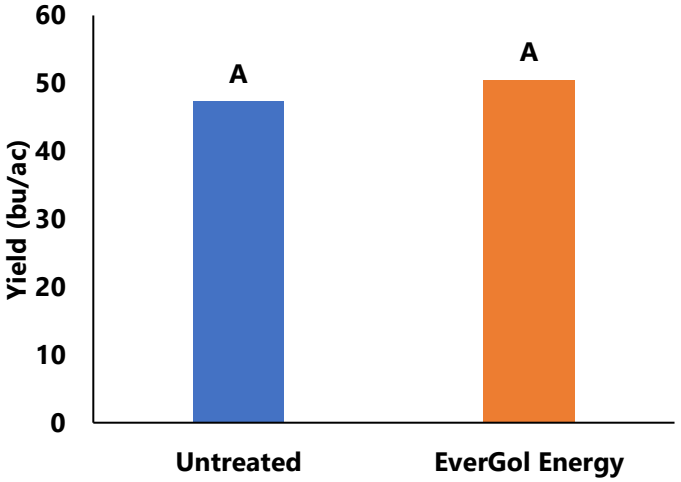
Pea Seed Treatment Trial

on-farm network
PARTICIPATORY • PRECISE • PROACTIVE



Root rot severity rating 1 = small lesion at point of seed attachment.

Yield by Treatment



Overall Yield & Economics

	Mean (bu/ac)	Cost ǂ	Change in Profit ǂǂ
EverGol Energy®	50.5	$17.5/ac	-$17.5/ac
Untreated	47.3		
Yield Difference	3.2		
P-Value	0.1084		
CV	5.9%		
Significance	**No**	**Economic**	**No**

ǂ Based on the estimated cost of pea seed fungicide treatment; product only, does not include cost of application.

ǂǂ Change in profit is calculated as the difference in cost between seed treatments. Because yields were not significantly different, there is no increased income to offset the increase in seed treatment cost.

MANITOBA Pulse Soybean GROWERS
T 204 745.6488
www.manitobapulse.ca