

Pea Biological Trial

Trial ID: 2022PB01 – R.M. of Roland

Objective: Quantify the agronomic and economic impacts of biological products for field pea production.

Summary: There was no significant yield difference between field peas treated with Envita® and those without. Due to the lack of yield response, there was a decrease in profit/ac equivalent to the cost of product application.

Trial Information†

Treatment	Envita®
Application Timing	V8
Application Date	23-Jun
Application Rate	40 ac/jug
Application Method	Broadcast
Soil Texture	Very Fine Sandy Loam
Previous Crop	Sunflower
Tillage	Zero Till
Seeding Date	May 18
Variety††	CDC Lewochko
Seeding Rate	180 lbs/ac
Row Spacing	7.5"
Plant Stand @ V2	426,000 plants/ac
Harvest Date	August 29

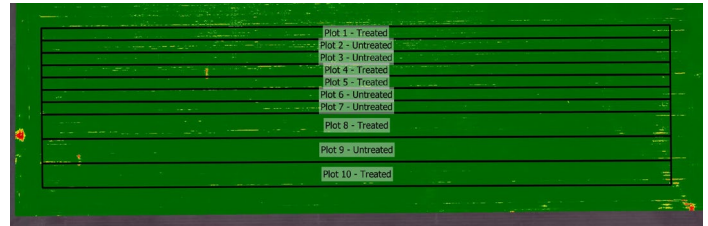
† Envita® is a biological product intended to enable plant foliage and roots to fix their own nitrogen.

†† PhycoTerra® ST is a biological product intended to reduce fungal and bacterial disease pressure

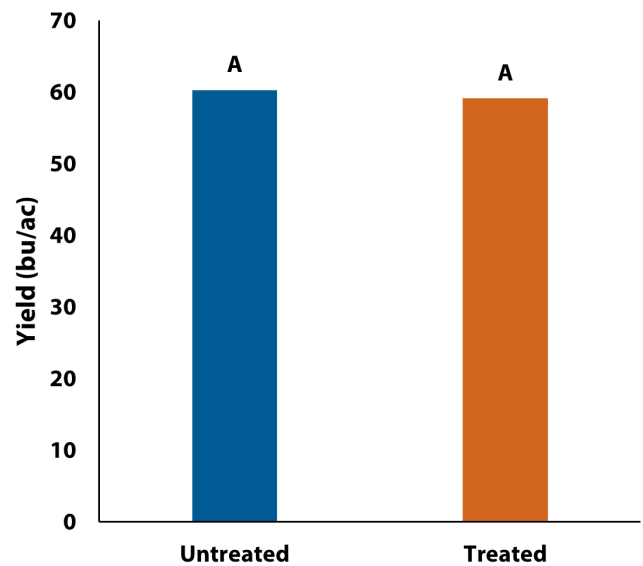
Precipitation (mm)

	May	Jun	Jul	Aug	Total
Rainfall	110.6	42.2	84	53.1	289.9
Normal	53.8	80.6	65.7	71	271.1
% Normal	206%	52%	128%	75%	107%

NDVI Field Image July 25



Yield by Treatment



Overall Yield & Economics

	Mean (bu/ac)	Cost†	Change in Profit/ac††
Envita®	59.1	\$14.50/ac	-\$14.50/ac
Untreated	60.3		
Yield Difference	-1.2		
P-Value	0.6873		
CV	5.9%		
Significance	No	Economic	No

† Based on an estimated cost of \$14.50/ac for biological products; does not include application costs.

†† Yields were not significantly different, therefore profit/ac decreased by the cost/ac of the biological treatment.