

Pea Biological Trial

Trial ID: 2022PB02 – R.M. of Souris-Glenwood

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	V6
Application Date	June 24
Application Rate	40 ac/jug
Application Method	Broadcast
Soil Texture	Loam
Previous Crop	Soybeans
Tillage	Conventional
Seeding Date	May 24
Variety ††	AAC Carver
Seeding Rate	180 lbs/ac
Row Spacing	12"
Plant Stand @ V2	283,000 plants/ac
Harvest Date	September 1

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

†† Lignijoule™ ST is a biological product intended to enable the plant to photosynthesize more.

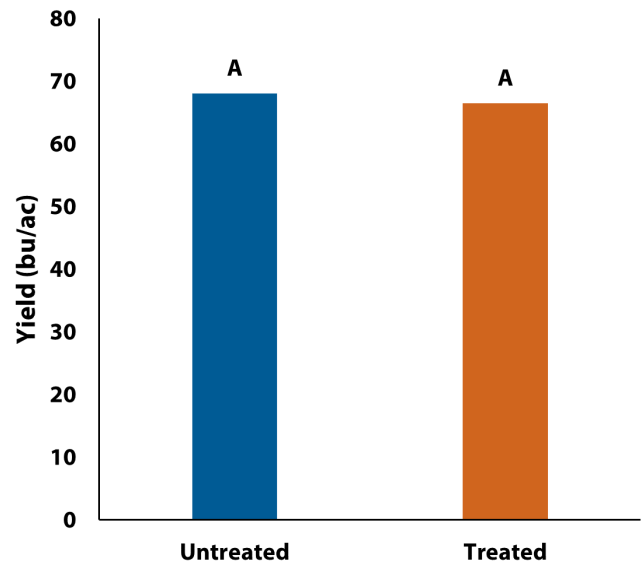
Precipitation (mm)

	May	Jun	Jul	Aug	Total
Rainfall	116.9	140.1	133.1	35.4	425.5
Normal	51.2	72.8	74.4	67.5	265.9
% Normal	228%	192%	179%	52%	160%

NDVI Field Image July 26



Yield by Treatment



Overall Yield & Economics

	Mean (bu/ac)	Cost †	Change in Profit/ac ††
Envita®	66.4	\$14.50/ac	-\$14.50/ac
Untreated	68.0		
Yield Difference	-1.6		
P-Value	0.4347		
CV	4.6%		
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.