Pea Seed Treatment Trial

Trial ID: 2024-PST03 – R.M. of Minitonas-Bowsman

Objective: Quantify the agronomic and economic impacts of fungicide and insecticide seed treatments in field peas.

Summary: Root rot incidence and severity were similar between treatments. The amount of pea leaf weevil defoliation was also similar between treatments. There was no significant yield difference between seed treated with Cruiser 5FS + Vibrance Maxx and untreated, resulting in a decrease in profit/ac in the treated area of the trial, equivalent to the cost of products.

Trial Information

Treatments	Cruiser 5FS + Vibrance Maxx vs Untreated
Soil Texture	Clay Loam
Previous Crop	Soybeans
Tillage	Zero Till
Seeding Equipment	Plot Seeder
Seeding Date	May 8
Variety	CDC Carver
Row Spacing	10"
Harvest Date	August 20

Plot Layout

Precipitation (mm)

	May	June	July	Aug	Total
Rainfall	63.1	67	41.9	118	290
Normal	45.4	84.2	85.6	68.3	283.5
% Norm	139%	80%	49%	173%	102%

Germination and Plant Population

	Germination	Population (plants/ac)
Cruiser 5FS + Vibrance Maxx	97%	202,000 A
Untreated	97%	222,000 A

Summary of Root Rot Rating at V6ǂ

	Incidence	Severity
Cruiser 5FS + Vibrance Maxx	53%	0.6
Untreated	63%	0.7

ǂ Severity 0-9 rating scale; Incidence= Percent of plants infected.

Root rot ratings (L to R): 0= healthy plant, 1= infection at t of seed attachment, 2=5-10% infection

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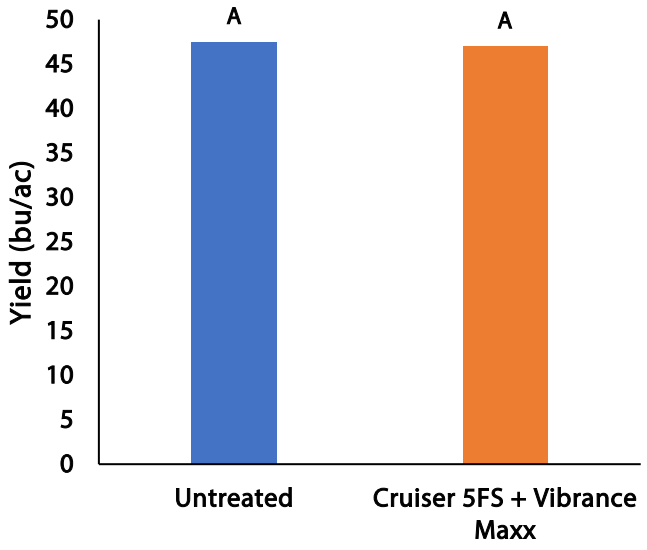
Yield by Treatment



Overall Yield & Economics

	Mean (bu/ac)	Cost ǂ	Change in Profit ǂǂ
Cruiser 5FS + Vibrance Maxx	47.0	$33/ac	-$33/ac
Untreated	47.5		
Difference	-0.5		
P-Value	0.691		
CV	3.2%		
Significance	No	Economic	No

ǂ Based on the estimated cost of pea seed fungicide and insecticide treatments; product only, does not include cost of application

ǂ ǂ 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 cost

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