

Vital Earth Resources

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2013 Crop Results

Vitazyme on Winter Peas

Researcher: Jacob Hesselstine

Location: Waterville, Washington

Previous crop: summer fallow

Soil type: high clay with volcanic ash

Planting date: August 30 to September 1, 2012

Planting depth: 2 inches

Experimental design: A 217.74-acre pea field was divided into a 40-acre Vitazyme treated area and untreated remainder, to evaluate the effect of one application of the product on pea yield.

1. Control

Fertilization: no mineral fertilizers, but Rhizobium in peat moss added at planting

Vitazyme application: 19.2 oz/acre (1.5 liters/ha) on May 8, 2013, by ground sprayer along with Intensity herbicide and Agitent crop oil

Weather for 2013: ample late-season rain, unfavorable for harvest, but severe wind storms arrived after harvest

Yield results:

Treatment	Yield lb/acre	Yield change lb/acre
Control	3,338	—
Vitazyme	4,882	1,544 (+46%)

**Increase in yield with
Vitazyme: 46%**

Income results: The peas sold for \$0.187/lb, giving an additional return of \$288.64/acre with Vitazyme, or \$11,545.60 more on the 40 treated acres, from a \$360.00 investment.

Return on investment: 32.07 to 1

Conclusions: This winter pea study in Washington revealed that Vitazyme increased yield by an amazing 46%, using a single spring application of 19.2 oz/acre. Such a high increase shows the product's great efficacy in improving pea yield under these conditions. Income was increased by \$288.64/acre, with a Return on Investment of 32.07:1.

Farmer: Tom Stahl

Variety: Windham dry yellow smooth

Tillage: discing, chisel plowing, harrowing

Seed treatment: fungicide + molybdenum

Planting rate: 72 lb/acre

Row spacing: 16 inches

2. Vitazyme

