

## Vital Earth Resources

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# 2012 Crop Results

## Vitazyme on Winter Barley

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Research organization: National Academy of Agricultural Sciences

Location: Vinnytsia, Ukraine

Variety: Luran

Previous crop: corn

Soil type: gray podzolic (2.2% organic matter, 8.4 mg/100 g of soil hydrolyzed N, 15.8 mg/100 g of soil P, 12.4 mg/100 g of soil exchangeable K, pH = 5.5)

Planting date: October 13, 2011

Tillage: conventional (disking, plowing, and cultivation)

Planting rate: 5 million seeds/ha

Experimental design: A replicated plot design was established using plots of 0.1 ha, and four replicates, to evaluate the effect of Vitazyme on the yield on the yield of winter barley.

### 1. Control

### 2. Vitazyme

Fertilization: 50 kg/ha of dry nitrogen in the spring

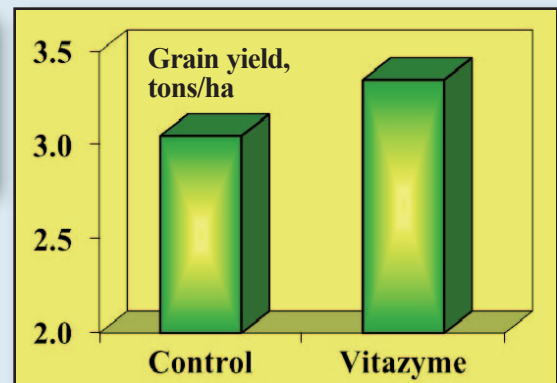
Vitazyme application: 0.5 liter/ha on the leaves and soil at the boot stage (leaf tube formation)

Weather for 2012: favorable for crop development

Yield results:

Treatment	Grain yield tons/ha	Yield change tons/ha	Extra income hrn/ha
Control	3.05	—	—
Vitazyme	3.35	0.30 (+10%)	475

**Increase in grain yield with  
Vitazyme: 10%**



Conclusions: This replicated barley trial in Ukraine revealed that Vitazyme, applied at the boot stage at 0.5 liter/ha, increased grain yield by an excellent 10%, resulting in improved income of 475 hrn/ha. The utilization of a seed treatment at fall planting would likely have boosted the yield and income even more. These results prove the excellent value of this product in agricultural systems for barley production in Ukraine.