

Vital Earth Resources

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2012 Crop Results

Vitazyme on Winter Rye

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Location: Vinnytsia, Ukraine

Variety: Pikasso

Previous crop: corn

Soil type: gray podzalic (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: 5.5 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 rye.

1. Control

2. Vitazyme

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

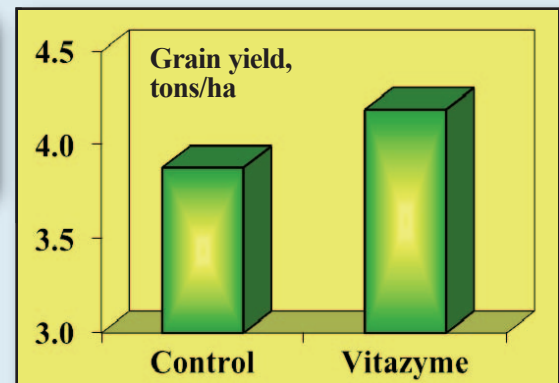
Vitazyme application: 0.5 liter/ha on the leaves and soil at the boot stage (leaf tube formation)

Weather for 2012: favorable for crop development

Yield results:

Treatment	Grain yield tons/ha	Yield change tons/ha	Extra income hrn/ha
Control	3.88	—	—
Vitazyme	4.19	0.31 (+8%)	494

**Increase in grain yield with
Vitazyme: 8%**



Conclusions: This replicated winter rye trial in Ukraine revealed that Vitazyme, applied at the boot stage at 0.5 liter/ha, increased grain yield by a sizeable 8%, resulting in improved income of 499 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 rye production in the Ukraine.