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0 Crop Results

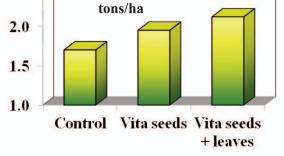
Vitazyme on Buckwheat

Researcher: V. V. Plotnikov **Research organization:** National Academy of Agrarian Sciences *Location*: Vinnytsia State Agricultural Research Station, Vinnytsia, Ukraine (Central Forest and steppe Region) Variety: Ukrainian Super Elite *Soil type*: gray podzolic (organic matter = 2.2%, hydrolyzed N = 8.4 mg/100 g soil, P = 15.8 mg/100 g soil, exchangeable K = 12.4 mg/100 g soil, pH = 5.5) <u>Previous crop</u>: sugar beets Planting date: May 7, 2010 *Planting rate*: 4.5 million seeds/ha Soil preparation: tillage to 22 cm, harrowing to 3 to 4 cm Experimental design: A buckwheat plot area was divided into four replicates with a control and two Vitazyme treatments, with the objective of determining the effects of the product on yield. 1. Control 2. Vitazyme on seeds 3. Vitazyme on seeds and leaves Fertilization: 30 kg/ha of N, incorporated before planting

Vitazyme application: Treatments 2 and 3, 1 liter/ha on the seeds at planting on May 7; Treatment 3, 1 liter/ha on the leaves and soil at early bloom on June 7 Yield results:

Treatment	Yield	Yield change	2.	5 /		
	tons/ha	tons/ha	2		Buckwheat yield,	
1. Control	1.70				tons/ha	
2. Vitazyme, seeds	1.95	0.25 (+15%)	2.	0		
3. Vitazyme, seeds + leaves	2.12	0.42 (+25%)				
		· · ·	1.3	5		

Yield increase with Vitazyme: 15 to 25%



Income results: Income was increased by 630 hrn/ha for one treatment, and 835 hrn/ha for two treatments. **Conclusions:** This Ukrainian trial with buckwheat revealed that Vitazyme, applied either on the seeds or on the seeds plus the leaves, gave an excellent yield response: 15% for the seeds only, and 25% for the seeds plus the leaves. Income increases were from 630 to 855 hrn/ha. This program is an excellent management practice for buckwheat growers in Ukraine.