

**Vital Earth Resources**

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**2000 Crop Results**

**Vitazyme on Navy Beans (Organic)**

Farmer: Leon Roske

Location: Olivia, Minnesota

Variety: Schooner

Row spacing: 30 inches

Soil type: Clarion-Nicollet-Webster silty clay loam

Planting date: June 25, 2000

Experimental design: A field of Navy beans was treated with Vitazyme except for a strip that received none.

**1. Control**

**2. Vitazyme**

Fertilization: fish emulsion and molasses on the seeds at planting, and again on the leaves and soil at early bloom (see below)

Vitazyme treatment: At planting, Vitazyme (13 oz/acre) plus molasses (0.5 gal/acre) and liquid fish (2 gal/acre) were applied. At early bloom(late July) Vitazyme was again applied at 13 oz/acre, along with 0.5 gal/acre liquid fish, on the leaves and soil. This late application was made to both the control and Vitazyme treatments.

Weed control: cultivation, plus hand weeding midsummer

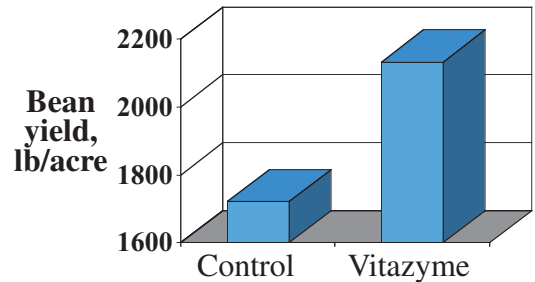
Harvest date: September 21, 2000

Yield results: Yield checks were made in the check strip, and on either side in the treated areas. These yields were weighed at a local grain elevator.

	Control*	Vitazyme	Change
	----- lb/acre -----		
<b>Bean yield</b>	1,721	2,132	(+)411 (+24%)

\* Only the north treated side is included here since the south strip had a low area that reduced yield by 67 lb/acre.

**Bean yield increase\*: 24%**



\* The increase may have been greater had the control not been given the second Vitazyme application.

Income results: A value of \$0.30/lb for organically grown Navy beans is expected.

	Control	Vitazyme	Change
	----- \$/acre -----		
<b>Bean value</b>	516.30	639.60	(+)123.30

**Income increase:  
\$123.30/acre**

Conclusions: Vitazyme applied to these Navy beans grown in Southern Minnesota provided a substantial yield increase (+24%), as well as a large increase in income (\$123.30/acre). The yield and income increases may have been greater had the control strip not received the benefit of the second Vitazyme application. A serious dry period late in the growing season and a late planting reduced the yield potential somewhat, but even so a good yield was obtained.