Vital Earth Resources
706 East Broadway, Gladewater, Texas 75647
(903) 845-2163 FAX: (903) 845-2262

2000 Crop Results

Vitazyme on Field Beans (Organic)

Farmer: Richard and Eric Parrott, Parrott Organic Farms
Location: Twin Falls, Idaho
Variety: Great Northern beans
Planting date: June 15, 2000
Soil type and conditions: light to white in color, and a moderate slope; 40% are white, which are areas of poor yield; Portneuf silt loam
Previous crop: field beans
Experimental design: A fairly uniform 20-acre field was divided into control (8 acres) and Vitazyme treated (12 acres) areas. Soils in both areas were relatively equivalent, with 40% white soils in each area.

1. Control **2. Vitazyme**

Fertilization: beef manure compost with crop residues
Irrigation: furrow irrigation of limited quantity
Vitazyme treatment: a 5% Vitazyme solution on the seeds before planting, and 12 oz/acre sprayed on the plants and soil at pre-bloom
Harvest date: September 25, 2000
Yield results:

Crop parameter	Control	Vitazyme
Final stand	Very poor on white soils due to poor germination	Good and even on white soils due to good germination
Bean quality	Good quality	Good-Plus quality
Standability	Average on good soils Poor on white soils	Better on good soils Much better on white soils
Windrow size	Average, but light on white soils	More full on all soils
Ease of harvest	Some beans lost on white soils	Hardly any beans lost on white soils
Yield	Average for organic production	Above average for organic production
Crop value*		**+ 304.5 lb/acre above the control** **+ $106.58/acre**

* A value of $0.35/lb was received. Actual yield values for the two treatments have been kept confidential by the grow-

Bean yield increase: 304.5 lb/acre

Income increase: $106.58/acre

Conclusions: Two applications of Vitazyme to this Great Northern field bean crop produced a sizeable yield increase of higher quality beans, that translated into $106.58/acre more income. Such an increase produced a 21:1 income increase: product cost ratio. The yield improvement was due in part to better germination and growth on the poor "white" soil of this field, but also due to improved growth throughout the field on all soils.