Vital Earth Resources

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2002 Crop Results

Vitazyme on Potatoes, for Seed

Variety: Daeji

<u>Researcher</u>: C.K. Kim <u>Research organization</u>: Dae Yu Company, Ltd.

Location: Bongsung-Ri, Aeyoul-Eup, Jeju-City, Korea

Soil fertility: unknown Soil type: unknown

Planting date: Autumn of 1999, spring of 2001, fall of 2001

<u>Experimental design</u>: A field area of 100 m^2 (10 "are") was used for this study. Vitazyme and three other products were compared to a control treatment for all three plantings. The five treatments were randomized and replicated three times, with five plants for each plot.

- 1. Control4. Product A-2
- 2. Vitazyme 5. Product B
 - 3. Product A–1

Fertilizer treatments: unknown

<u>Vitazyme treatments</u> : (1) 2 liters/hectare (26 oz/acre) as a 1:3,000 dilution, sprayed on the leaves and soil at 25 cm plant height; (2) the same application at early bloom

<u>Other biostimulant treatments</u>: The same applications as for Vitazyme, but for Product A-1 a 1:500 dilution was used; for Product A-2 a 1:1,000 dilution was used; for Product B a 1:1,000 dilution was used.

<u>Results</u>: No individual plot data could be obtained for this study, so only treatment means are shown.

Fall Planting–Plant Response Study

Treatment	Plant height	Change	Stem length	Change	Leaf number	Change	Stem number	Change
		(cm					
Control	66.4		44.7		12.5		0.9	
Vitazyme	75.7	9.3 (+14%)	54.1	9.4 (+21%)	12.2	(-) 0.3 (-2%)	0.8	(-) 0.1 (-11%)
Product A-1	74.9	8.5 (+13%)	51.0	6.3 (+14%)	13.6	1.1 (+9%)	0.5	(-) 0.4 (-44%)
Product A-2	71.9	5.5 (+8%)	48.5	3.8 (+9%)	11.6	(-) 0.9 (-7%)	0.9	0 0
Product B	80.6	14.2 +21%)	56.3	11.6 (+26%)	13.2	0.7 (6%)	0.7	(-) 0.2 (-22%)
80 Plant heig 75 70 65 60 Control	ht, Vitazyme	60 50 40 30 Co	Stem ength, cm	13.0- 12.5- 12.0- 11.5- 11.0- Vitazyme	Control	Leaf number	1.0 0.9 0.8 0.7 0.6 0.5 Contr	Stem number

Measurements were made 45 days after planting.

Spring Planting





was increased by Vitazyme toward the larger sizes.