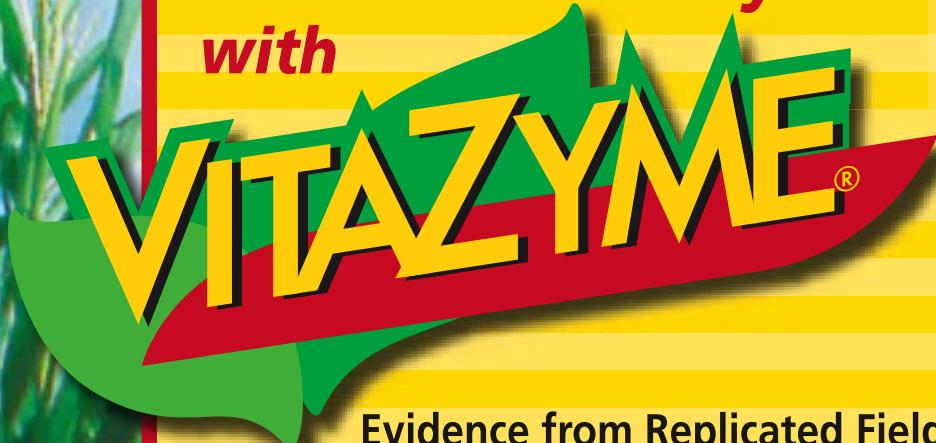




Improvement in Fertilizer Efficiency with



Vital Earth Resources

706 East Broadway Avenue

Gladewater, Texas 75647

(903) 844-2023 • (800) 245-7645

www.vitalearth.com

Evidence from Replicated Field Trials — 1995 to 2004

By Paul W. Syltie, Ph.D., Soil Fertility
Director of Research, Vital Earth Resources

The following studies demonstrate the effectiveness of Vitazyme for improving fertilizer nitrogen efficiency. Compare the improvement of yield with Vitazyme at each nitrogen level, and also the enhancement of yield with Vitazyme at a lower nitrogen level compared to the untreated yield at a higher nitrogen level (see the dotted lines). Most of these studies have been replicated and statistically analyzed. For the full reports, go to www.vitalearth.com and click on "Vitazyme".



Location	Year	Nitrogen lb/acre	Yield no Vitazyme	Yield with Vitazyme
CORN				
Ames, Iowa (field corn)	1995	80	79.5 bu/acre	87.2 bu/acre
		120	80.4 bu/acre	89.1 bu/acre
Burlington, Iowa (field corn)	1996	80	127.6 bu/acre	155.2 bu/acre
		120	155.2 bu/acre	165.6 bu/acre
Ames, Iowa (field corn)	1997	0	151.7 bu/acre	158.8 bu/acre
		50	183.5 bu/acre	186.6 bu/acre
		100	191.3 bu/acre	190.1 bu/acre
Pen Yan, New York (organic sweet corn)	1999	Manure/alfalfa plowdown	9,905 lb/acre	14,765 lb/acre (with 0.5 gal/acre fish; fish alone, 11,438 lb/acre)
Crossville, Tennessee (sweet corn)	1999	40	3.6 tons/acre	4.0 tons/acre
		80	3.8 tons/acre	4.9 tons/acre
Cecilia, Kentucky (field corn)	2001	80	124.4 bu/acre	—
		105	138.1 bu/acre	151.9 bu/acre
Cedar Falls, Iowa (field corn)	2003	80	145.8 bu/acre	155.4 bu/acre
		160	159.9 bu/acre	—

Location	Year	Nitrogen lb/acre	Yield no Vitazyme	Yield with Vitazyme
Ondo State, Nigeria (field corn)	2003	112 224	255.0 g/m ² 328.3 g/m ²	338.3 g/m ² 345.3 g/m ²
Elizabeth City, NC (field corn)	2004	0 56 112 224 280	54.0 bu/acre 118.3 bu/acre 157.8 bu/acre 150.0 bu/acre 139.9 bu/acre	98.5 bu/acre 138.4 bu/acre 155.6 bu/acre 159.4 bu/acre 161.5 bu/acre
Clarkton, North Carolina (field corn)	2004	0 56 112 224 280	153.9 bu/acre 170.2 bu/acre 145.9 bu/acre 159.3 bu/acre 139.7 bu/acre	181.6 bu/acre 162.6 bu/acre 166.8 bu/acre 178.6 bu/acre 151.2 bu/acre
SWEET POTATOES				
Havana Province, Cuba	2003	56 84 112	_____ _____ 27.20 tons/ha	26.73 tons/ha 32.33 tons/ha 34.00 tons/ha
SUGAR CANE				
Mantanzas Province, Cuba	2004	109 146	_____ 9.87 tons/ha	10.81 tons/ha 10.89 tons/ha
Holguin, Cuba	2004	0 73 109 146	7.46 tons/ha _____ _____ 9.73 tons/ha	_____ 8.14 tons/ha 8.94 tons/ha 12.06 tons/ha
RICE				
Santiago de Cuba, Cuba	2004	0 42 84	11.95 tons/ha _____ 12.21 tons/ha	_____ 15.05 tons/ha 16.50 tons/ha
Sancti Spiritus, Cuba	2004	0 66 88	3.17 tons/ha 3.83 tons/ha 4.65 tons/ha	_____ 5.81 tons/ha 6.34 tons/ha
Havana Province, Cuba	2004	0 66 88	2.41 tons/ha 2.96 tons/ha 2.88 tons/ha	_____ 3.10 tons/ha 3.19 tons/ha
LETTUCE				
Labradores, Mexico	2005	[60%] [100%]	_____ 930 lb/plot	1,144 lb/plot