



Sanjay Dutta – President, **AGNI International Family of Companies**

OM Environmental Products

AGNI INTERNATIONAL Family of Companies

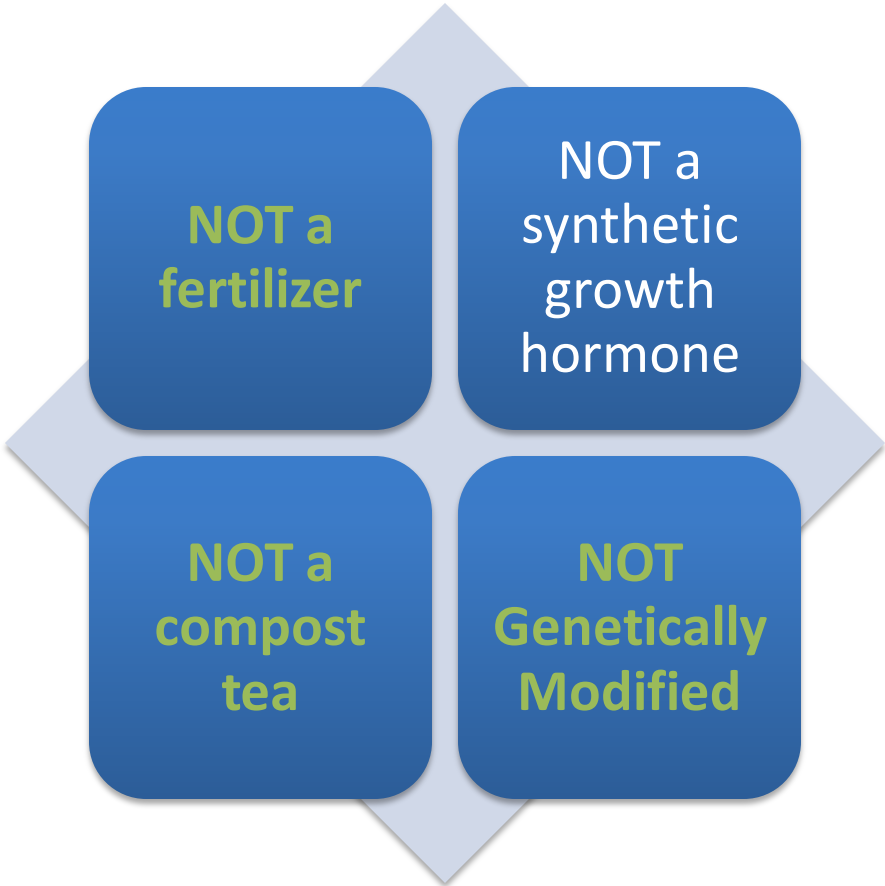
Michigan based company established in 1996
specializing in

- Management Consulting (BPO, M&A, Turnarounds,)
- Staffing Solutions
- **OM Environmental Products**
- AGNI Energy Solutions (Plastics to Fuel, Waste to Energy, Waste Water Treatment Plants & Desalination)
- Elysium Light Solutions
- Manufacturing & Procurement

OM



GROW MORE...NATURALLY



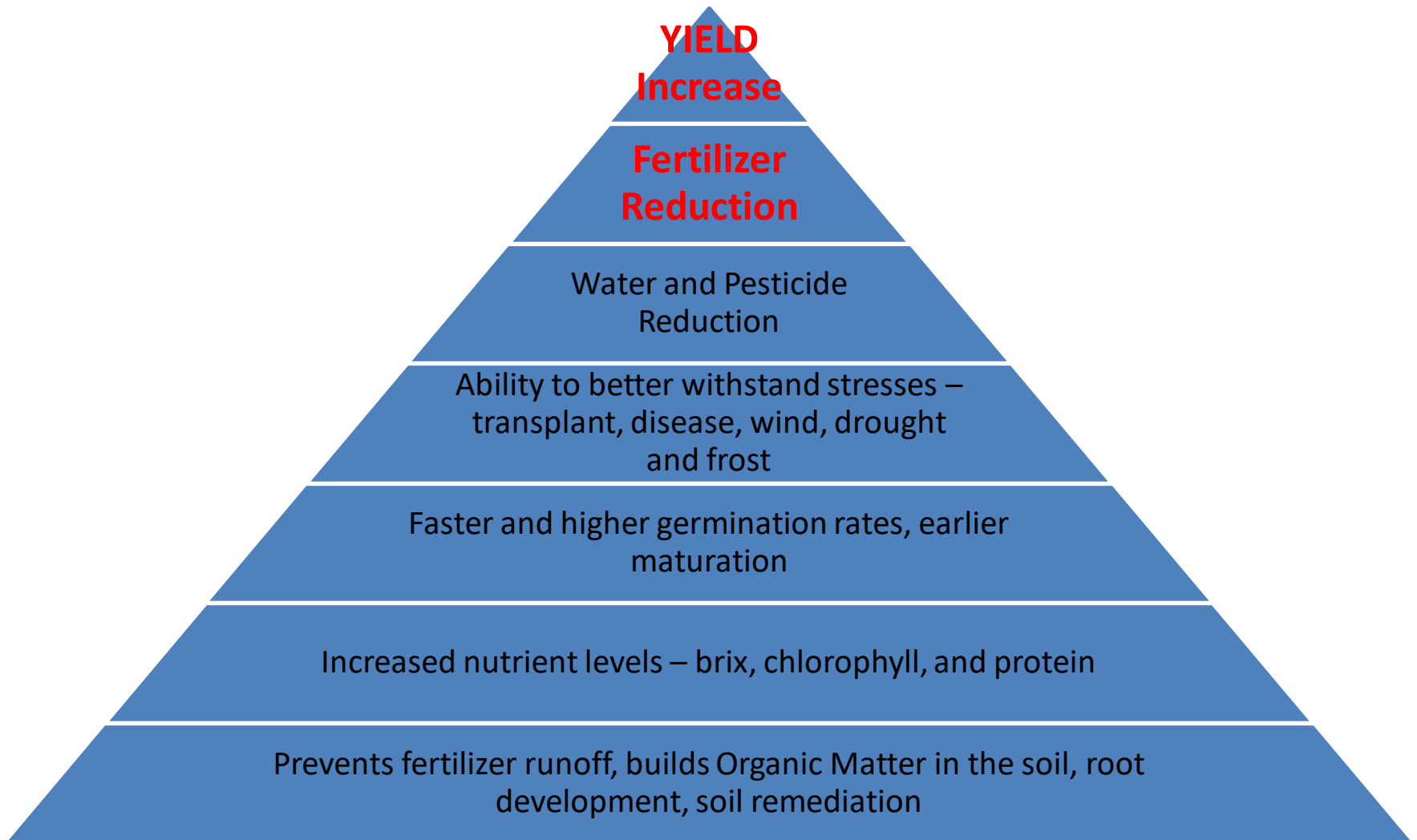
**NOT a
fertilizer**

**NOT a
synthetic
growth
hormone**

**NOT a
compost
tea**

**NOT
Genetically
Modified**

Benefit Pyramid



Food Riots Looming Again in 2009

7 Nov, 2008 - The financial crisis gripping global markets could trigger a new wave of food riots across the developing world, the FAO has warned.



Every 3.6 seconds a person
dies of hunger

75%
of them are children



Published on Monday, August 17, 2009 by [The Guardian/UK](#)

Asia Facing Unprecedented Food Shortage, UN Report Says

Call to share sustainable future vision

Dr SAM WELLS, Director at The University of Adelaide Business School

Britain wants "rethink" on food production

Mon Aug 10, 2009 10:55am EDT

By [Peter Griffiths](#) LONDON (Reuters) - Britain must find ways to grow more food while using less water, energy and fertilizers to

Food riots turn deadly in Haiti

At least four people were killed and 20 wounded when demonstrations against rising food prices turned into riots in southern Haiti, officials say.

**US Food Riots Much
Closer Than You Think**

Forbes.com

Organics On Steroids

Develops organic solutions to improve crop yields and reduce the use of synthetic fertilizers.

THE STOCKMAN
GrassFarmer

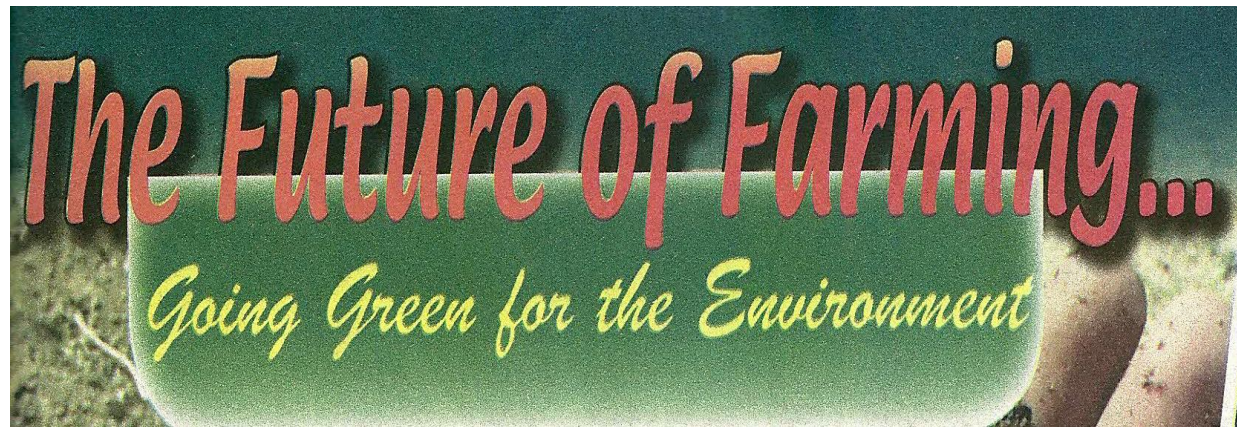
THE GRAZIER'S EDGE

1-800-748-9808

**New Organic Soil
Amendment Product
Shows Promise In
Pastures**



Popular Science Magazine
August 2009
**The Future of Farming: Eight
Solutions For a Hungry World**



What is Soil Amendment?

- A unique, patented combination of different strains of microbes in high concentration of 10^{12} or greater.
- Sourced from naturally isolated soil microbes.
- **MICHIGAN STATE UNIVERSITY DEVELOPED**

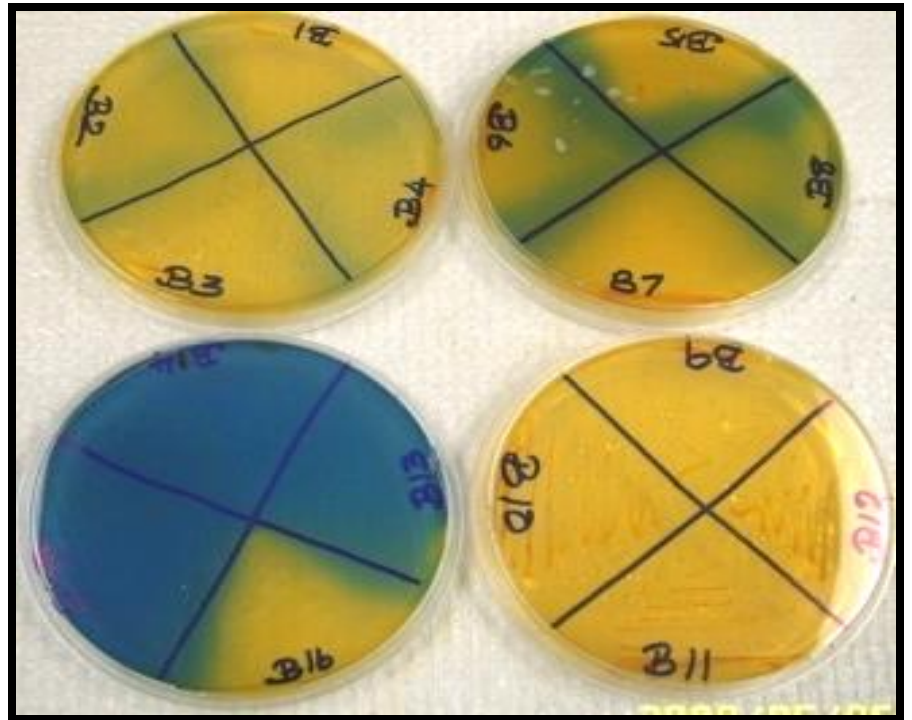


What is Soil Amendment?

- Microbe Functions:
 - Nitrogen Fixing Microbes
 - Microbes that function as Phosphate solubilizers.
 - Microbes that act as nutrient cyclers, making soil nutrients more bio-available to the plants.
 - Microbes that encourage key plant phyto-hormones.
 - Microbes that act as biological control agents.

What is Soil Amendment?

- Maintained in pure parental strains.
- Microbes classes include: Enterobacter, Pseudomonas, Stenotrophomonas, Rhizobium, Azorhizobium, Trichoderma



Applications in Oakland County

- Athletic fields
- Landscaping around Lakes
- Golf Courses
- Schools
- Nursery
- Child care
- County parks and gardens
- Community Gardens
- Prison gardens
- Community revitalization zones
- Landfill restoration
- Highways
- Flower beds and medians
- Organic farming
- Meat
- Reduced stress on Waste Water treatment plants and offsetting environmental regulations and fines

Problems with Chemical Pesticides

- Wide use of pesticides for controlling plant diseases
- High costs because of great demand
- High levels of pesticides in the environment because of their recalcitrance to degradation
- Not eco-friendly as they kill beneficial insect pollinators & predators
- Leaching of pesticides contaminate ground water
- Toxic to humans/animals in very low amounts
- Intensive search is on for biopesticides which are safe, cost-effective, and eco-friendly and contribute to the goal of sustainable agriculture.
- **Health issues among children and is currently getting evaluated for Autism in Children**

TOP 10 BENEFITS

1. Yield Increase
2. Yield Increase
3. Yield Increase
4. Yield Increase
5. Yield Increase
6. Yield Increase
7. Yield Increase
8. Yield Increase
9. Yield Increase
10. Fertilizer Reduction

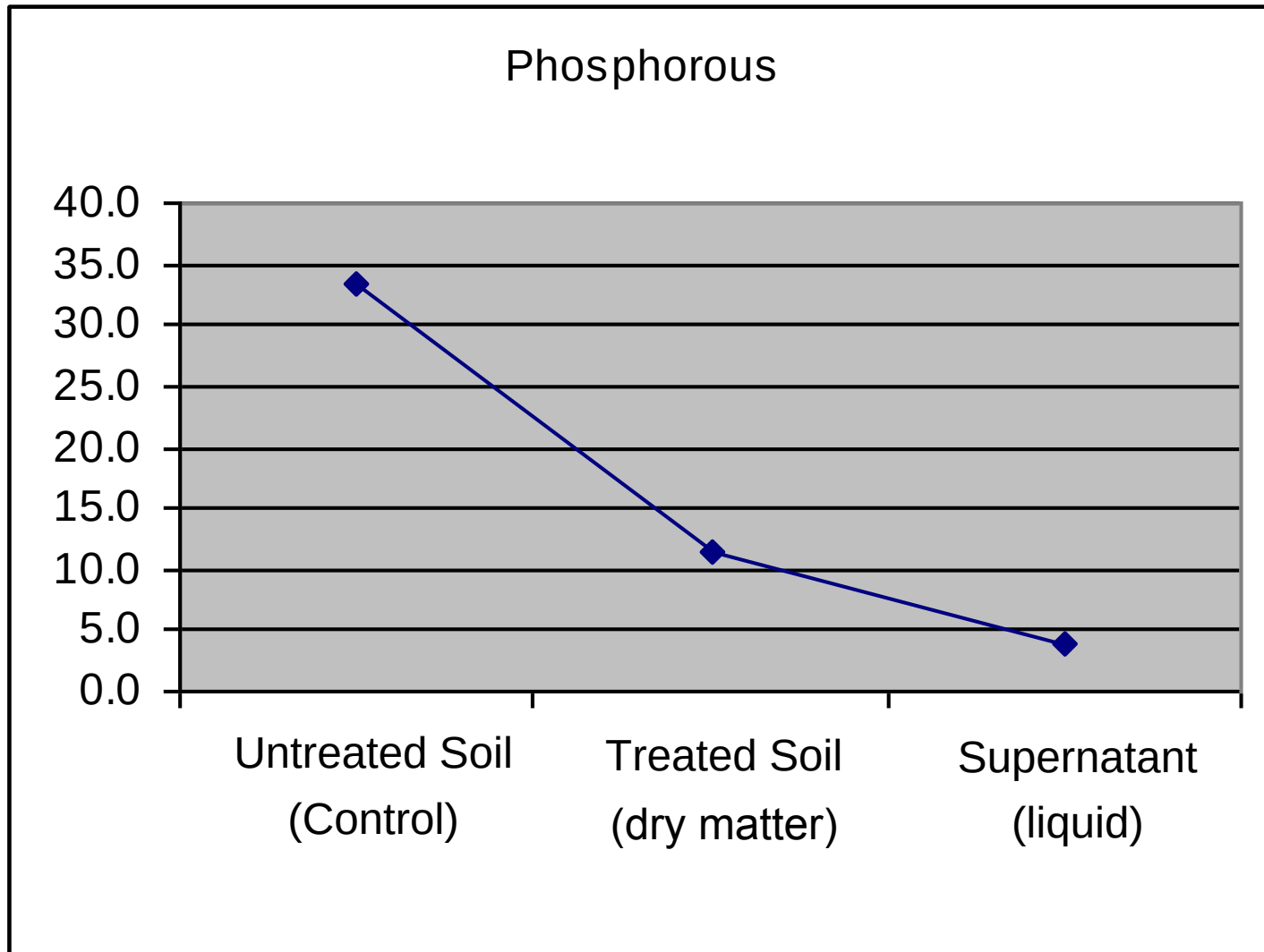
Necessity of Fertilizer Reduction When Using Soil Amendment

Fertilizer Run-off Prevention

*“From Kansas to China’s Sichuan province, farmers treat their fields phosphorous-rich fertilizer to increase the yield of their crops... Our dwindling supply of phosphorous ... threatens to disrupt the food security across the planet ... **This is the gravest natural resource shortage you’ve never heard of.**”*

April 20, 2010 Foreign Policy

Phosphorous Remediation



SUSTAINABLE & “ORGANIC”



Easy to Use

- **Stores at room temperature**
- **One formula has a broad range of applications**
- **Cannot do harm**
- **Ability to co-apply**
- **Inexpensive to transport**

Bragging Rights

- **Biggest**
- **Best Tasting**
- **Fastest Growing**
- **Greenest**
- **Healthiest**
- **Most Profitable**

CARBON CREDITS

Assume: 10 ton of harvested dry matter (DM) Miscanthus canes per acre
8 ton DM/acre leaves/stubble returned to the land (unharvested)

1:1 root to shoot ratio

Carbon content of canes is 47%

Carbon content of leaves is 45%

Carbon content of roots/rhizomes is 50%

10 T cane x 0.47 = 4.7 T carbon x 44/12 (3.67) = 17.25 T CO₂

8 T aftermath x 0.45 = 3.6 T carbon x 3.67 = 13.21 T CO₂

18 T roots/rhizomes x 0.5 = 9.0 x 3.67 = 33.03 T CO₂

Total Ton CO₂ mitigated per acre = 63.49 T

Soil Amendment can create 2,000 - 4,000 pounds of organic matter per acre per year.



Organic matter holds 10 - 1,000 times more water and nutrients than mineral soil alone.

An increase in soil organic matter increases the water holding capacity of the soil allowing better utilization of rain or irrigation water.



NITRATE REDUCTION!!!

	100	SG100	% Decrease	SG50	% Decrease
Runoff Water 7/20 – Gallons	77.0	40.0	48.05%	36.5	52.60%
Runoff Water 9/30 – Gallons	37.0	19.5	47.30%	16.0	56.76%
Nitrates in Runoff 7/20	24.0	12.5	47.92%	15.5	35.42%
Nitrates in Runoff 9/30	37.0	19.5	47.30%	16.0	56.76%

Back to Nature With Soil Amendment





CUSTOMER RESPONSE

*"I would like to thank you and your company for making a product that actually does what it's supposed to do. There are a lot of products out there that claim 'miracle results'; **your product actually is a miracle.** I can honestly say that **it is worth the money.** I am so impressed after last year's results that **I... have cut traditional fertilizers out completely.**"*

Tim Foglio, Bushkill, PA

Unbelievable... says a consumer lawn customer in NJ who applied product and left town for two weeks. When he came back, the grass was knee high. After mowing, the lawn looked great, though two days later thought it was almost ready to mow again.

Amazing Results... says a FL horticulturist, who stopped doing controlled trials on a variety of plants since the difference in the results was so striking.

Phenomenal... says a MS tall tunnel tomato farmer who sent pictures in.

Sales & Trial Locations

USA
Bahamas
Canada
China
Dominican Republic
Guatemala
India
Israel
Italy
Easter Island
Guinea
Indonesia
Hong Kong
Mali
Mexico
Brazil
Netherlands
Singapore
Ukraine
Japan
New Zealand
Philippines
Peru
South Africa
South Korea
Taiwan
Thailand
Vietnam

OVER
33 Million Acres Globally & Growing!

CONSUMER STORY

**Better for you and
better for the environment.**

OM with Soil Amendment

- Stable, efficacious, and eco-friendly poly microbial formulations
- Diverse groups of microbes with complementary functions
- Enhance growth, yield, and disease resistance of a broad spectrum of plants: legumes, non-legumes, vegetables, cereals, ornamentals, and fodder crops
- Reduce input of Chemical fertilizers
- Reduce/eliminate the need for chemical pesticides

ECO FRIENDLY



LANDSCAPE

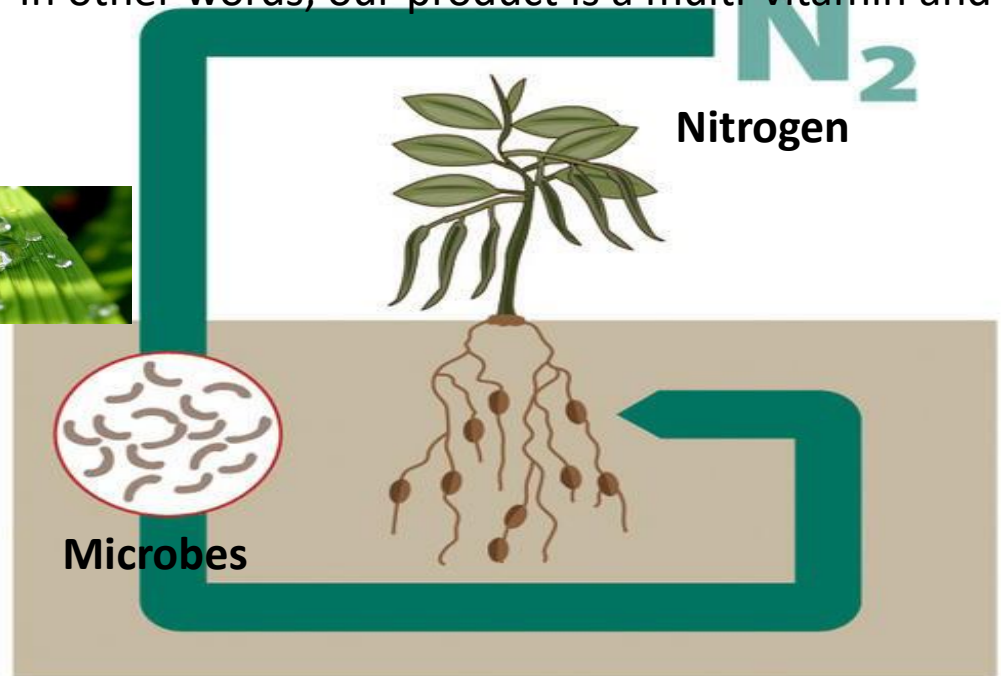


OM Environmental Products™ with Soil Amendment inside Popular Science Magazine 2011 Grand Award winner for new green technology

**Saves +20%
in irrigation**

**OM Environmental Products are environmentally-friendly and
100% organically based.**

OM Environmental products are made from cultivated, not genetically modified strains of microbes. Every product has at least 30 strains of microbes. OM Environmental Products™ product is the most complete product on the market, with at least six functions per product, and multiple strains per function. In other words, our product is a multi-vitamin and our competitors' products are simply Vitamin C. Actually, our product would be more correctly referred to as a perfect food since it contains (or has the ability to produce or mobilize) vitamins, minerals and organic pesticides, and adjusts its own environment by correcting the pH and allowing greater efficiency in water utilization.





OM with Suma Grow BENEFITS

- Increases crop yield
- Improves nutrient and water uptake
- Improves root and plant growth
- Improves plants' efficiency in using solar energy
- Reduces stresses of transplanting and drought
- Increases Cation Exchange Capacity
- Reduces infestations of harmful microbes and nematodes
- Increases effects of beneficial microbes and organisms
- Improves overall soil health and water retention
- Stimulates development of balanced micro flora population
- Increases bioactive substances needed for plant growth and development
- Reduces reliance on chemical fertilizers
- Improves the taste and quality of crops (increased Brix levels)
- Helps release micronutrients and trace elements, making them available to plants
- Stimulates germination
- Reduces amount of toxins in soil associated with harmful organisms
- Increases healthy decomposition of organic matter and reduces purification



Does Soil Amendment really work?



Sweet Potato Bigger than a Football





SQUASH COMPARISON



Without Soil Amendment



With Soil Amendment



AZOYCHKA

BIO SOIL

AZOYCHKA

Control

AZOYCHKA

PLANT SUCCES



Flower Beds Before and After



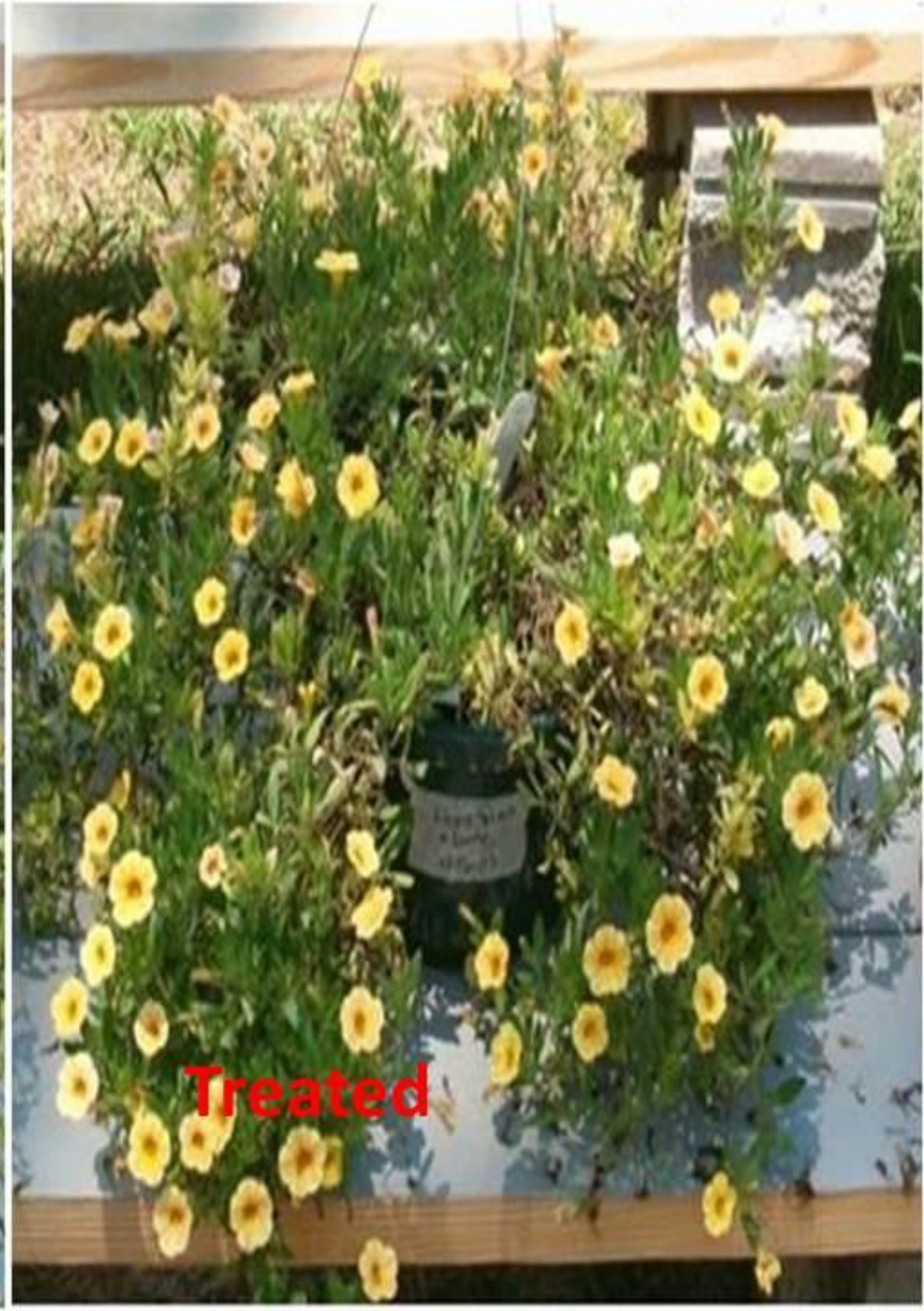
Roses

Before and After Treatment





Control



Treated

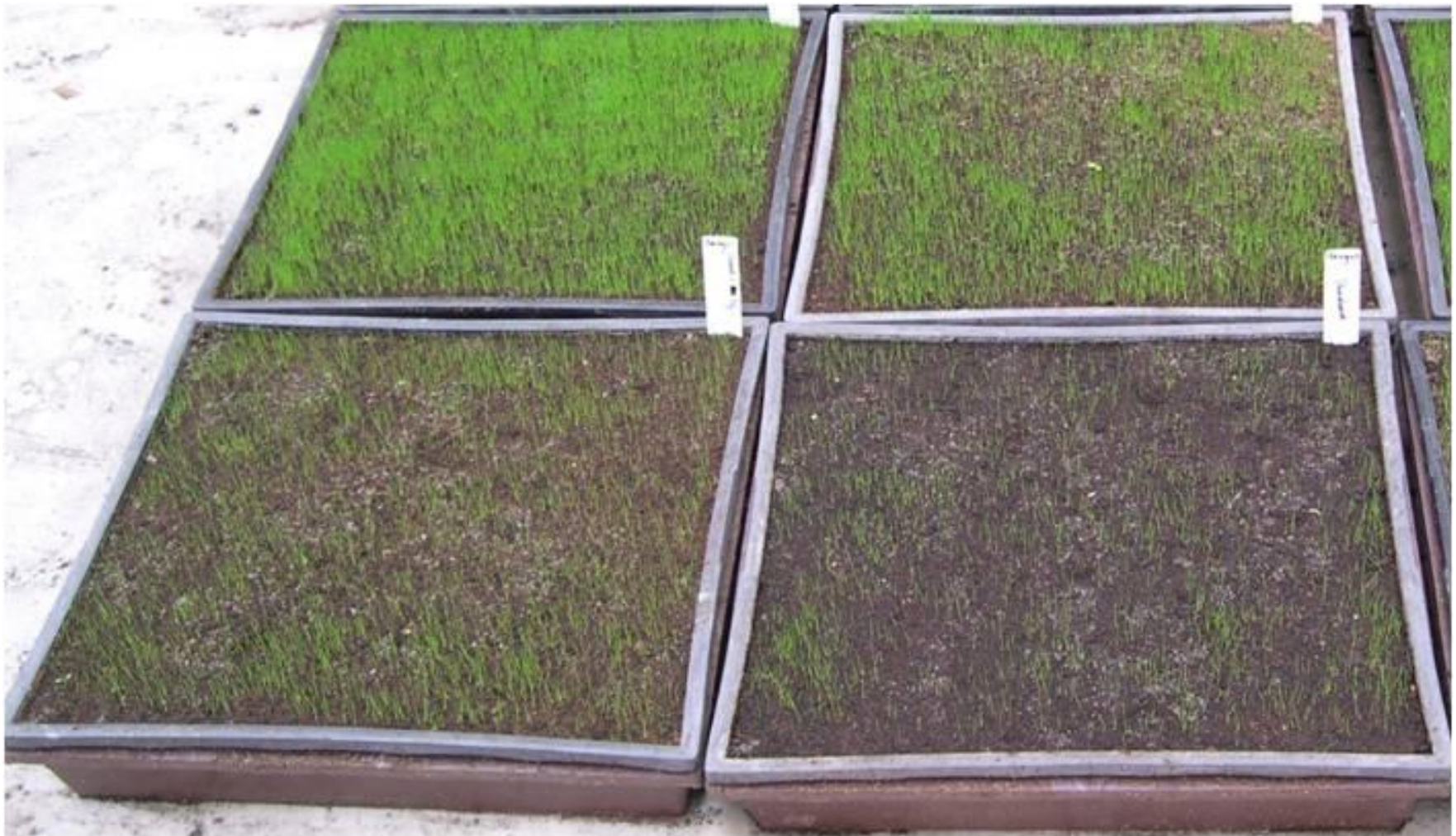
Barenbrug

Grass Seed Germination

Treated on left

Control on right

Top is fast growing seed bottom is slow growing seed



Clover



Without Soil Amendment



With Soil Amendment



Hunter's Food Plots

Sample	Protein Result	NPK/acre	Bio Soil
Plot 1	0.001 %	300 lbs	None
Plot 2	0.42 %	300 lbs	1 gallon
Plot 3	0.50 %	200 lbs	1 gallon
Plot 4	0.87%	100 lbs	1 gallon
Plot 5	2.33%	0 lbs	1 gallon



Pasture Land

How good is our Grass?



International Orchids in Guatemala

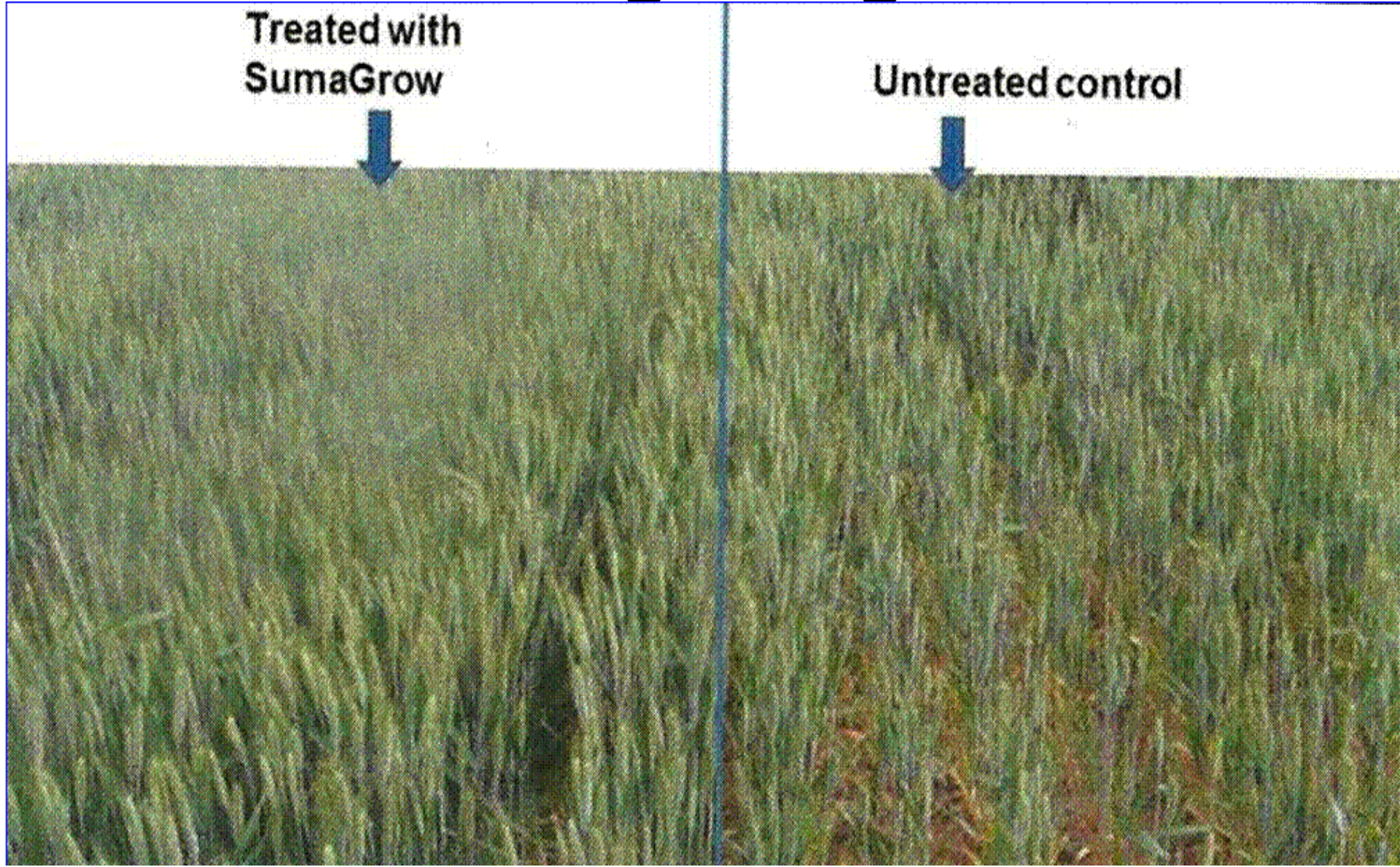


Wheat in China During Drought

Treated with
SumaGrow



Untreated control



Navy Beans

Control on left Treated on right





Control



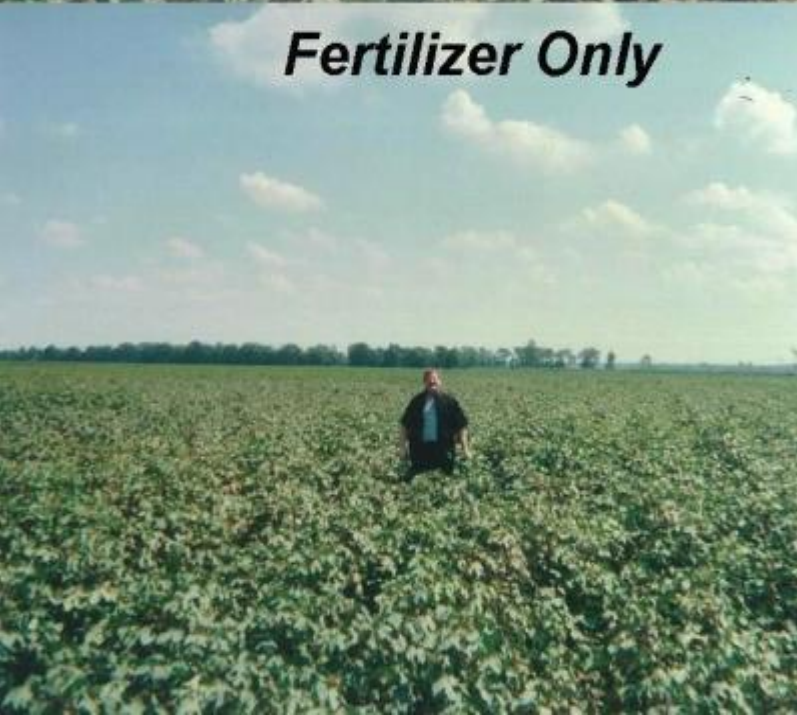
Treated

**Tobacco in
North Carolina
Damaged by Frost**





Fertilizer Only



**Soil Amendment
Treated**



Corn -- Michigan farmer obtains 40% yield increase with 50% fertilizer reduction



Corn plant approx. four weeks old

**227 bushels/acre with OM 162
bushels/acre for neighbor
Increase of 65 bushels x \$5.50
NET PROFIT INCREASE OF
\$357.50/acre (Yield benefit only)**

Rice – food staple for 50% of the world's population



Soybean Roots



Left side (top and bottom) is the control Right side is treated with Soil Amendment.



Picture and story posted
at Forbes.com

Woodlief Farm – Rolesville, NC

Yield Increase

Fertilizer Reduction

Drought Resistance



Soil Amendment Treated



Fertilizer – same day



Fertilizer – planted three days later

Farmer planted 30 acres this year; he will do all 800+ next year

Verifiable Results

Michigan State University – Greenhouse Studies

Crop	Yield [g]		
	SumaGrow	Control	% Increase
Rice	20.85	5.2	<i>301%</i>
Tomato	1900*	380	<i>400%</i>
Soybeans	11.58*	5.1	<i>127%</i>
Pea	13.99*	7.52	<i>86%</i>
Okra	138.7*	38.7	<i>258%</i>
Peanut	21.62*	6.48	<i>234%</i>
Pea purple hull	14.75*	10.75	<i>37%</i>
Garden beans	48.6*	23.5	<i>107%</i>
Wonder bush beans	72.9*	35.6	<i>105%</i>



Bio Soil Testing in Hattiesburg, MS

242 double blind test plots (20' x 20')

Crops	SumaGrow (oz)	Control (oz)	% increase in yield over control
Squash	1559	963	<i>61%</i>
Tomato	836	477	<i>75%</i>
Banana Pepper	35	25	<i>40%</i>
Bell Pepper	102	80	<i>27%</i>

Mississippi State University

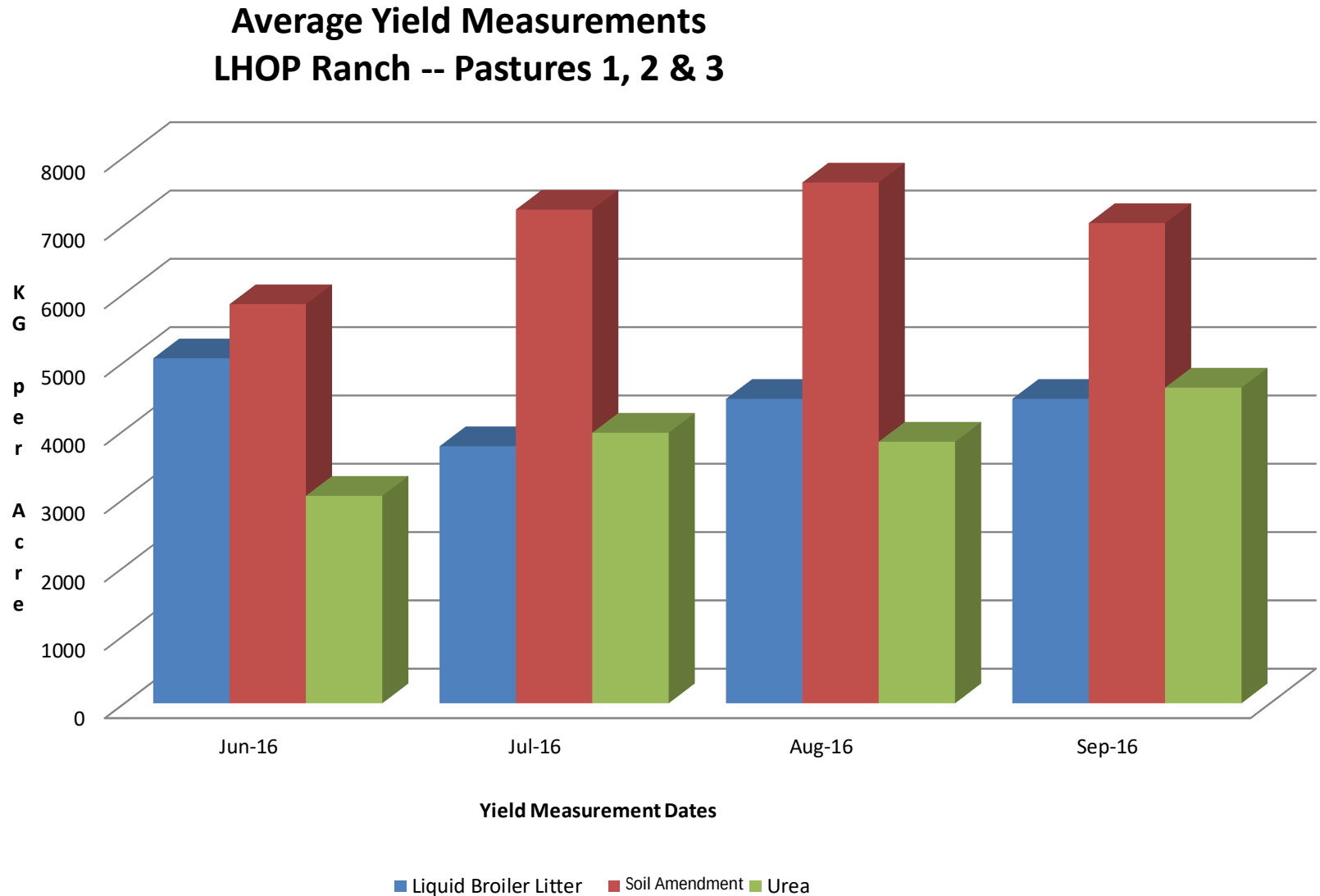
Cilantro – 20% Yield Increase

Michigan State University – Greenhouse Studies

	Chlorophyll Content			Total Yield (g)		
Crop	Fertilizer	Soil Amendment	% Change	Fertilizer	Soil Amendment	% Change
Corn	33.8	47.4	40.2%	119	563	373%
Soy Bean	40	47	17.5%	44.4	71	60%
Garden Bean	35.2	46.13	31.1%	192.8	504.5	162%
Tomato	34	47	38.2%	140	720	414%
Clover	37.3	46.7	25.2%	107	159	49%

LHOP Ranch, Independence, Kansas

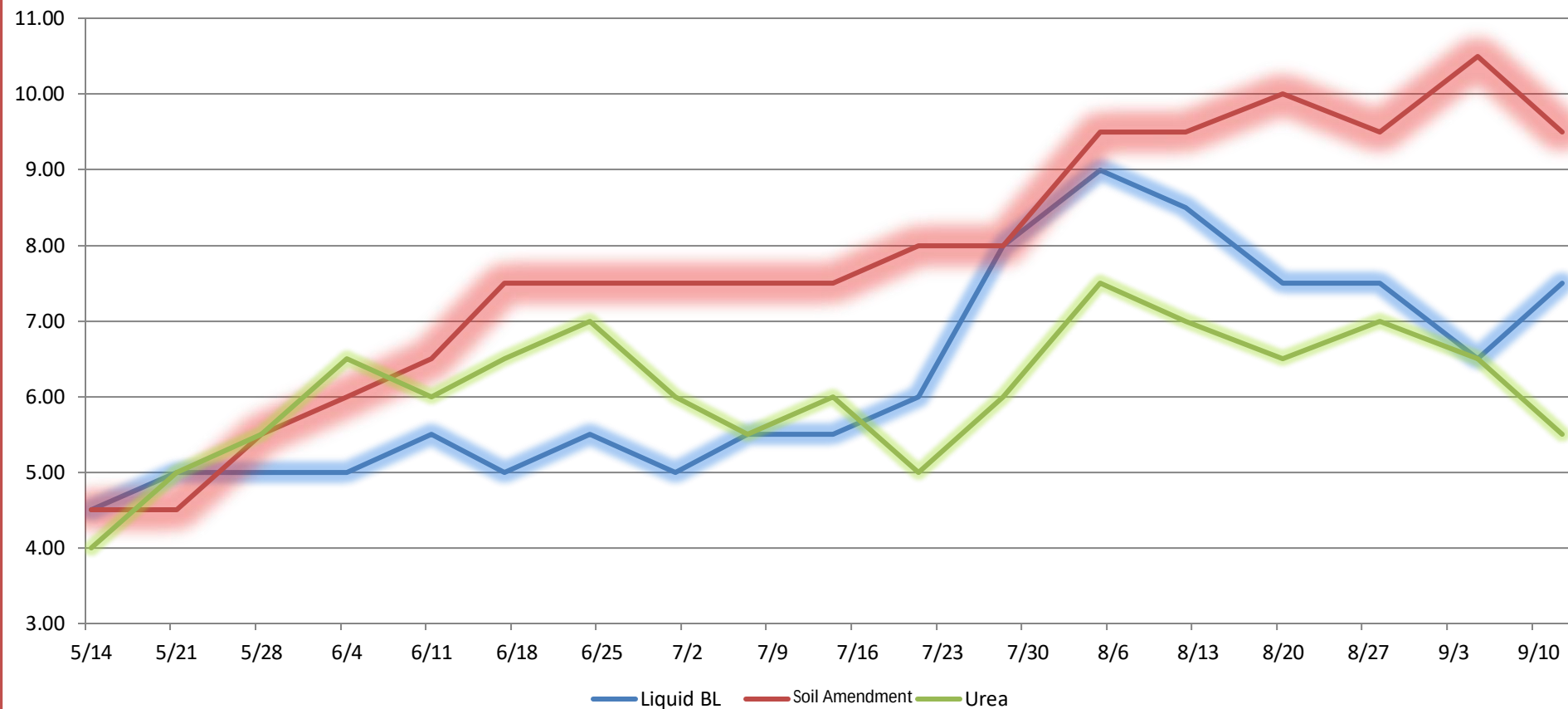
Average Yield Increase 48%



LHOP Ranch, Independence, Kansas

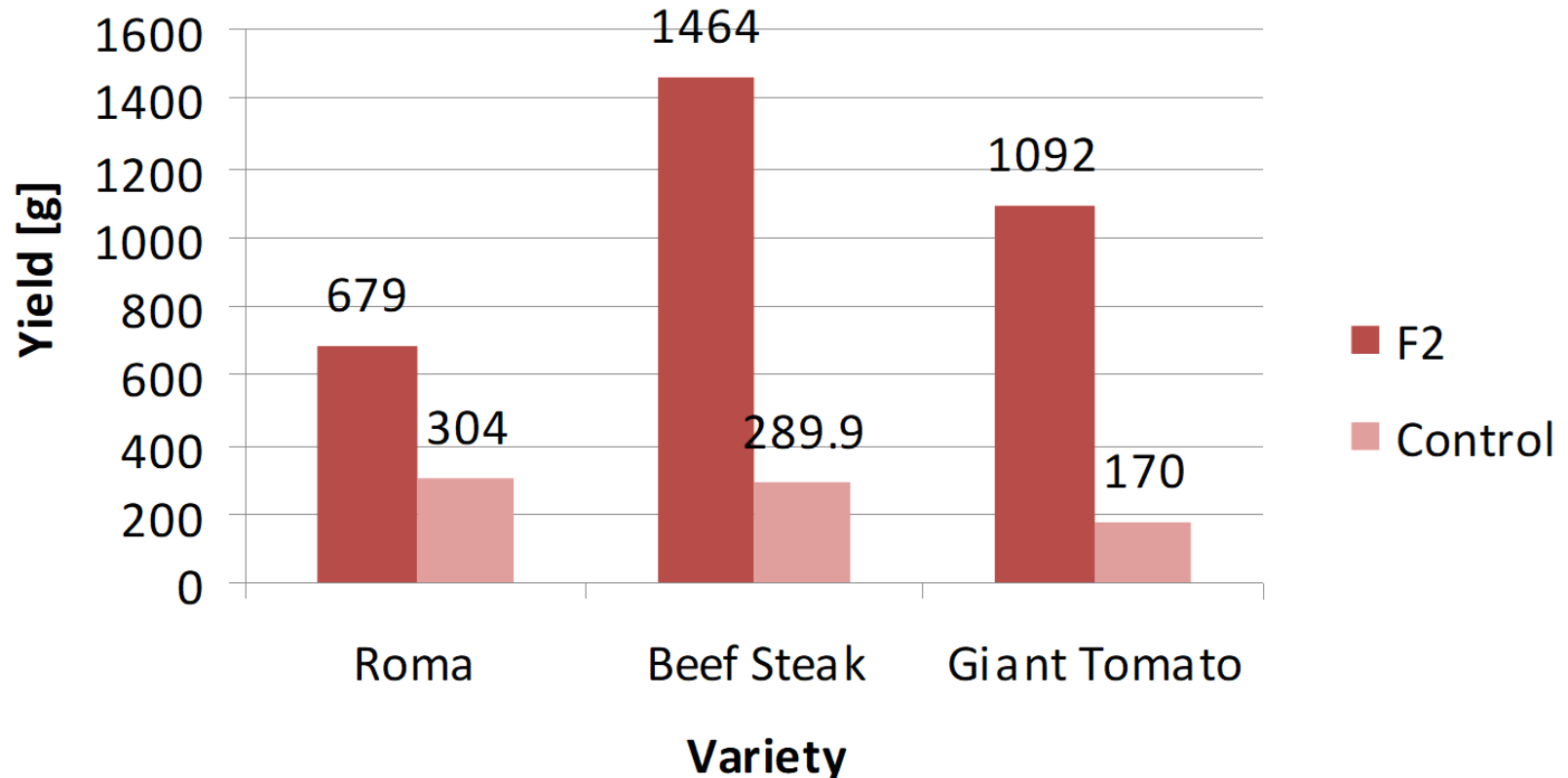
Average Brix Increase 25%

Average Brix levels -- LHOP Ranch
Bermuda Grass and White Clover (leaf) Only
Pastures 1A, 2A & 3A



Michigan State University

Total yield of tomato varieties treated with F2



Summary of Benefits

Increases Crop Yields 10 – 20+% !!

- **50-100% Reduction in fertilizer**
- **Reduce water usage at least 20%**
- **Approximately 50% reduction in pesticides**
- **Crops withstand stresses better – wind, drought**
- **Faster and higher percentage germination rates**
- **Crops mature faster (earlier harvesting)**
- **Higher nutrient value – protein, brix, chlorophyll**
- **Capture carbon and bio remediate the soil**

Concentrated Mother Nature

Sometimes a step backwards is progress

***Soil Amendment* is NOT Genetically Modified**

***Soil Amendment* is NOT a fertilizer**

***Soil Amendment* is NOT a growth hormone**

***Soil Amendment* is NOT a compost tea**

***Soil Amendment* is an ORGANIC, SUSTAINABLE
and ENVIRONMENTALLY FRIENDLY microbial
“cocktail”**

MARKET NEED

- ***“In the past five years, for the first time in recorded history, the world has consumed more food than it has produced. A calamitous short-fall in the world’s food supply is right around the corner.”*** Dr. Stephen Leeb, Editor of *The Complete Investor* newsletter
- ***“The fundamentals [for agriculture] have gotten better. The inventories are now at the lowest they've been in decades, not years. Sometime in the next few years, we're going to have very serious shortages of food everywhere in the world and prices are going to go through the roof.”***
Jim Rogers, Legendary Investor

Guaranteed Analysis:

Contains one trillion (10^{12}) concentration per milliliter polymicrobial materials (30+ components) suspended in an aqueous solution of liquid humates as an organic carrier.

The OM Story:

You hold in your hands a concentrated liquid blend of living microbes found in healthy soil. There is no other formulation in existence that contains a similarly comprehensive set of microbial groups or such a complete array of complementary functions. Nor has any other product been documented for efficacy or proven to so substantially increase productivity among such a broad spectrum of plants.*

OM was developed over more than a decade in cooperation with scientists at Michigan State University. The naturally occurring, clinically-tested, interdependent, stable bacterial and fungal populations in this product result in amplified production, improved soil respiration, and larger, healthier plants, overall.

OM enhances the bioavailability of nitrogen, the critical element of plant growth. It is particularly good in garden areas that lack sunlight or suffer poor conditions.

*Obtained from a study by Michigan State University.

We believe OM Soil can be part of a successful transition from chemical-based gardening and farming to a more sustainable agriculture.

Feeds:

Tomatoes, Flowers, Roses, Bulbs,
Vegetables, Fruits, Berries, Herbs

Product Benefits*:

- Yield increases average 20% +
- Larger plants
- Brilliant colors
- Faster maturity
- Enhanced nutritional value
- No fertilizer runoff
- No nitrate burning
- No odor
- No metals
- Remediates problem soils
- Makes even healthy soils healthier
- Increases soil organic matter
- Balances soil pH
- Non-toxic; you cannot over-apply
- Aids in water retention
- Increases moisture availability to plants
- All natural

*Obtained from a study by Michigan State University

If for any reason you are not satisfied after using this product, we will happily provide you with a full refund. Simply send us evidence of purchase and reimbursement will be promptly made.

Directions for Application:

It's never too late to feed your garden!



Shake well before applying.



Apply through a hose sprayer
at the rate of one quart per
400 square feet of garden area.



For ideal results, reapply two to
three times in two-week intervals.



Store in a cool, dry place.
Refrigeration optional.



Non-toxic, but keep out of the
reach of children. Do not swallow.

Soil Temperature



University Studies

Jiangxi Agricultural University

Quality	Length	Uniformity Index	Micronaire %	Elongation %
Control	32.33	83.70	5.40	6.00
Soil Amendment	28.49	84.00	5.42	6.10

Quantity	Height/cm	Spur /qnty	Cotton Bolls	Lint %	Yield Kg/ha	Lint Yield
Control	78.93	12.87	15.87	37.67	1524.0	573.75
Soil Amendment	96.20	15.00	19.55	39.30	1867.5	736.50

Cotton Yield Increase +22.5%
Lint Yield Increase + 28.4%

University of Hawaii

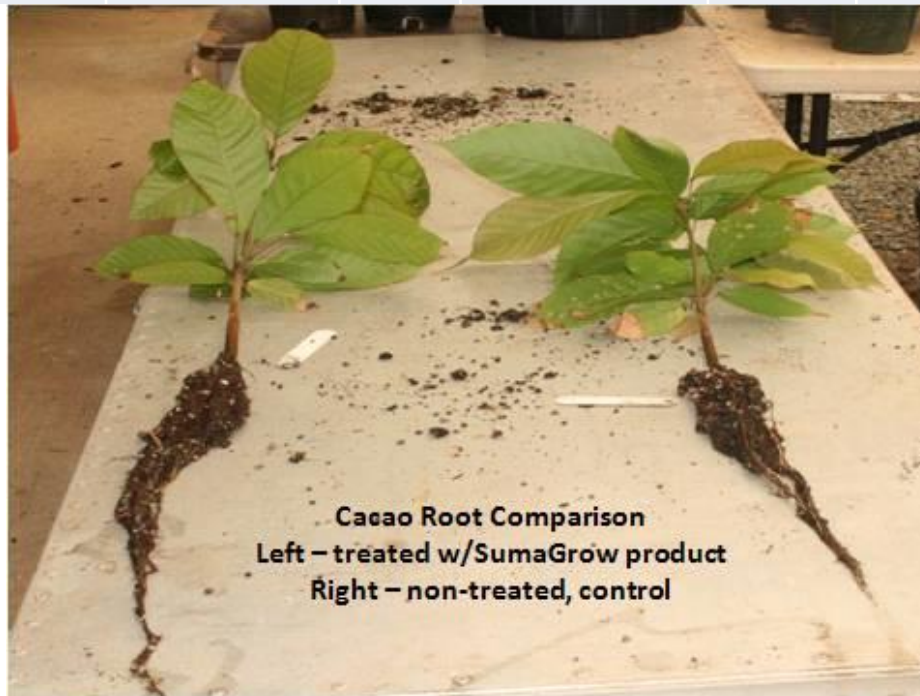
Cacao



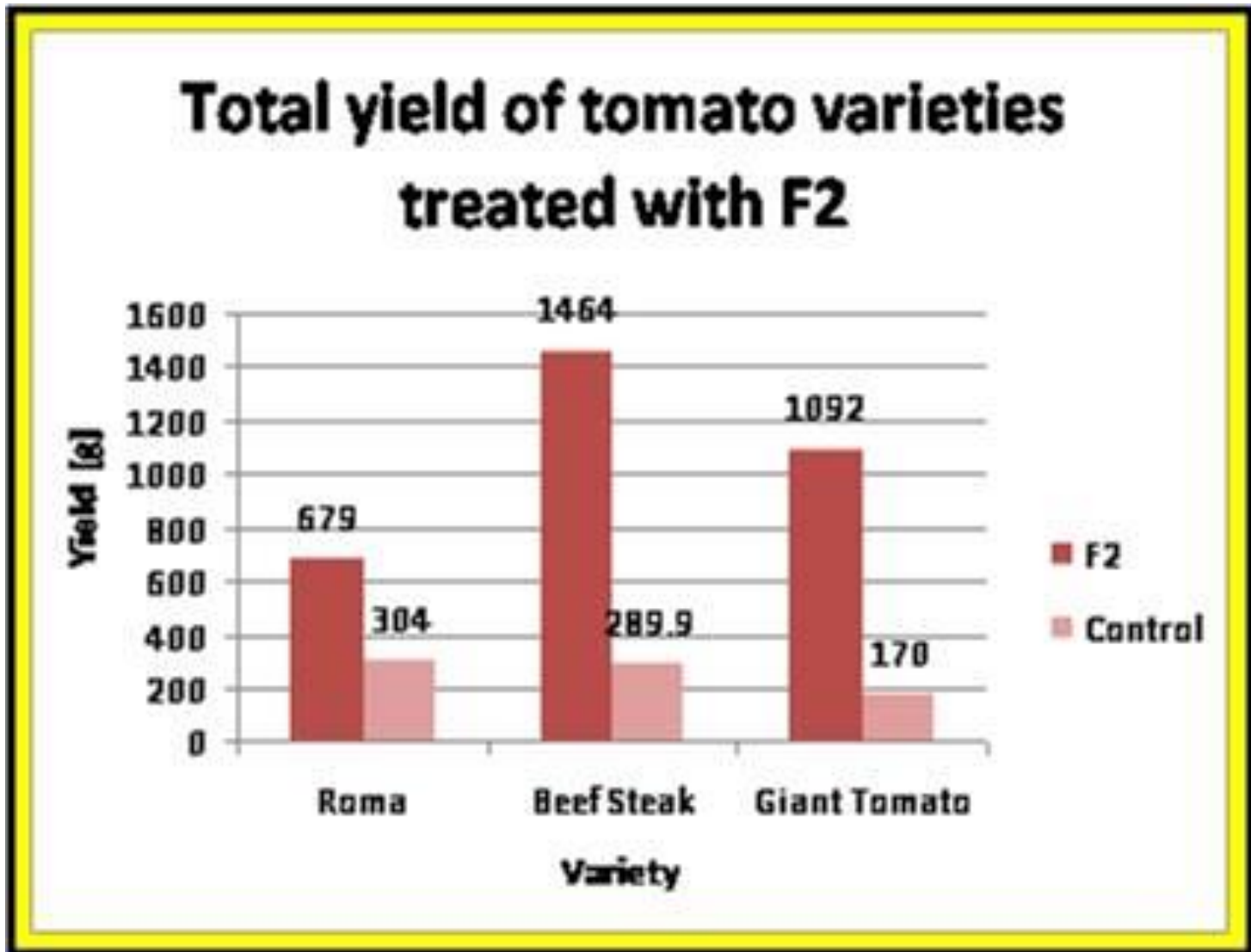
Cacao Comparison – SumaGrow treated left four plants

Cacao Results

	Start Mean Height	SD	End Mean Height	SD	Growth Rate
Control	6.5	0.5	9.3	2.3	43%
Soil Amendment	5.9	0.2	12.6	4.3	114%



Michigan State University Greenhouse Study



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242 double blind test plots (20' x 20')

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Squash	1559	963	61%
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Bell Pepper	102	80	27%

China Wheat

	Control	Soil Amendment	Difference
Ave. Plant Length (cm)	63	70	+11.1%
Ear Length (spike) cm	8	9	+12.5%
Ave. # of Tillers	4	10	+150%
Yield Per MU	200 kg	450 kg	+125%

China Tea



Control on left had dull leaves compared
to Soil Amendment on right



China Tea Results

	Ave. Plant Height (cm)	Ave. Crown Width (cm)	Ave. # of Buds/ Plant	Ave. Bud Length (cm)	Ave. Weight Of buds (g)
Soil Amendment (Plot A)	71.3	74.5	48	1.39	0.022
Control (Plot A)	57.3	62.5	34	0.97	0.014
Soil Amendment (Plot B)	72.8	70.3	77	1.05	0.015
Control (Plot B)	56.8	50.0	44	0.83	0.014

Testing performed by the Gov't of China & Nanjing Forestry University

Yield Increase over 80%

Guatemala - Ferns

“...using Soil Amendment on ferns and ornamental flowers with great results.”



India - Tulsi

“Usually leaves of this plant are 3 cms while you can see the difference with Soil Amendment leaves were 6 cms.”



India - *Vinca rosea*

“This plant leaves usually are 3 cm but with Soil Amendment leaves were as big as 6 cms.”



Philippines - Mangoes

“...fruition rate was phenomenal. ”



Student Science Fairs



"My 13 year-old granddaughter decided to do an experiment with Soil Amendment for her 8th grade Honors Science Class. She bought a packet of lettuce seeds dug some dirt out of her back yard and planted an equal number of seeds in each of two pots. One pot she treated with Soil Amendment, one was left on its own, except that she watered both with about 4oz of water every day or so. I visited with her over the Thanksgiving weekend (25 days later), and the attached photo is what I saw. I think she's likely to win, don't you? "

Cantaloupe - AZ

16.2% Yield Increase

Treated with Brix, Soil Amendment inside on left, control on right.



Celery - CA

“Treated with Brix on right. Note size difference in Brix’s favor. Continues to look good. One other note. This is the easiest Humic based product I have used in terms of handling and solubility.”



Cotton - NC

Notice the size of the bolls



76.9% Higher Revenue per bale

Bale Analysis Report Excerpt and Calculations

Treated	Bale	Control	Bale
Gwt	Value	Gwt	Value
	\$		\$
494	458.43	508	275.34
	\$		\$
515	472.00	512	271.87
	\$		\$
515	472.00	511	264.44
	\$		\$
487	445.12	520	279.24
	\$		\$
464	425.26	487	242.53
	\$		\$
510	467.42	519	267.29
	\$		\$
476	441.73	493	264.39

Organic Garlic - CT

"I must say I was so happy with the results. I grew some of the best garlic bulbs ever. I did notice the bulbs with OM Soution showed a significant increase in size."



Pasture Grass - MS

“We applied Soil Amendment inside in the spring and the total gross production was an improvement over using basic Triple 13. The grass came out earlier, was thicker and greener than I have ever seen for this time of year. For the first time the cows could not keep up with the growth and this year, we will have hay to cut from these fields.”



Tobacco - NC

**Tobacco buyer
states this was the
biggest and best
tobacco he had
ever seen!**



Soybeans - IL

Huntley, IL. Mark no-till, no-drill planted 20ac soybean May 15th. He got 51 bu. on the 20ac treated with Soil Amendment whereas the other no-till no-drill bean plots were 38-43 bu. His 26% jump occurred even though the plants had already flowered, which is beyond the application time we recommend.

The 26% increase is the average of the comparison plots, which would be a low of 18.6% and a high of 34.2% yield increase. We believe the results would have been even better had the product been applied when planting.

Corn - TX



During a drought, notice
the corn on the treated
plot





Forbes.com

Organics On Steroids

Develops organic solutions to improve crop yields and reduce the use of synthetic fertilizers.

THE STOCKMAN
GrassFarmer

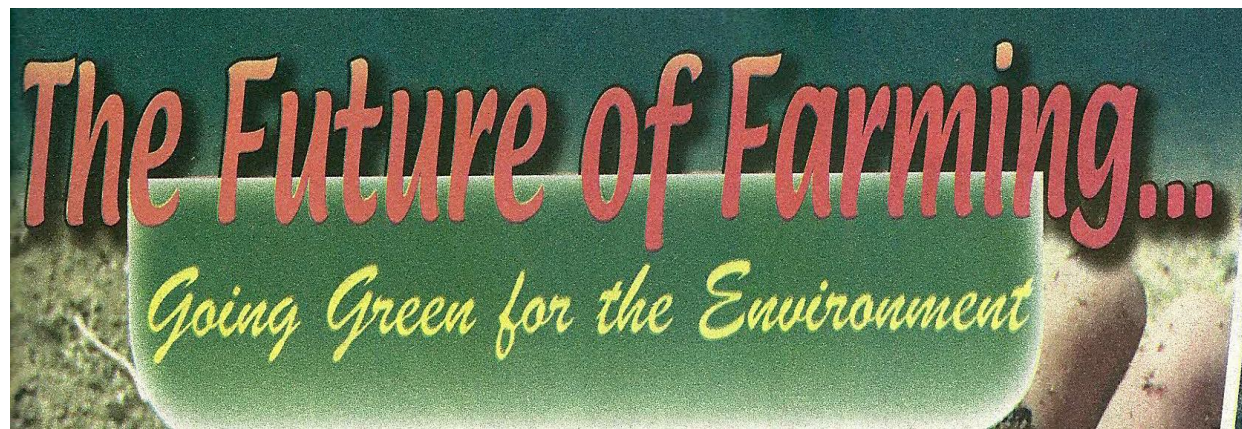
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**Popular Science Magazine
August 2009
The Future of Farming: Eight
Solutions For a Hungry World**



QUESTIONS & NEXT STEPS

Land Reclamation



Coal Slurry Impoundment





Capped Coal Slurry Impoundment



Re-vegetated Impoundment.

