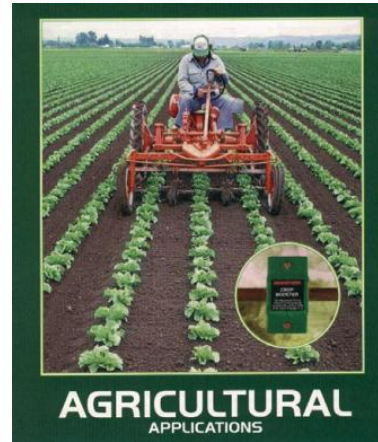


**Granfel Energy
Conservation**

**PENTA-GREEN ORGANICS
Agriculture Products**



**PENTA-GREEN ORGANICS
AGRICULTURE PRODUCTS**

Penta-Green Organics

Penta-Green Organics safely remediate pollutants while maintaining the natural balance of the Earth. Our Agricultural Products provide safe, environmentally-friendly, and economical alternatives to the use of the harsh, and often dangerous, chemicals and fertilizers available on the market today.

The agricultural industry is in need of technologies which will allow them to produce higher yields and higher quality in a more environmentally-sound manner without compromising the health of the crop or the soil. Granfel Green Products intend to meet this need through highly differentiated product offerings.

Granfel Green Products can be used in small gardens, lawns, farms, food plots, houseplants, flower gardens, and basically anywhere else plants are grown.

IRRIGATION WATER OPTIMIZER



Applicable for all Watering and Irrigation Systems

IRRIGATION WATER OPTIMIZER

- ☞ Reduces surface tension of the water.
- ☞ De-clods and breaks up the compressed soil.
- ☞ Roots grow and absorb nutrients more quickly.
- ☞ The root system is *excited* by the electromotive forces of the Irrigation Water Optimizer which promote healthier, bigger and quicker plant growth.
- ☞ Growing cycle decreases by 15-20 days; harvest being 15-20 days earlier.
- ☞ Crop production increases from 15-20% to 100% or more.
- ☞ Plant disease rates drastically decrease.
- ☞ Taste of agricultural products improves.
- ☞ Approximately 30% less water is used for irrigation. Therefore, 30% less energy is used in water pipes.



**Provide people & animals with more nutritious food
...with more minerals & less chemicals!**

TECHNOLOGY

The survival of modern man requires new approaches to the growing demands on an already polluted and depleted ecosystem. The water optimizer breakthrough of its powerful magnetic monopole technology is meeting the new agriculture requirements with dramatic results.

Scientists at the Department of Mineral Engineering Technion - I.I.T in Israel, and Penta-Green Organics researchers worldwide confirm that the principle of Magneto-hydrodynamics lowers surface tension of water, creating greater solubility and penetration which simulates root system.

Over time, soil compacts, which restricts the root growth. The Irrigation Water Optimizers de-clods and breaks up the compressed soil giving the roots freedom to grow and absorb nutrients more quickly. In drip irrigation, the mineral/scale barrier, known as the bowl effect, is dissolved thereby enabling and encouraging the root cilia to grow and expand farther into the soil. The rigorous and maximized efficiency of the root system excited by the electro-motive forces of the Irrigation Water Optimizer promotes healthier, bigger and quicker plant growth.



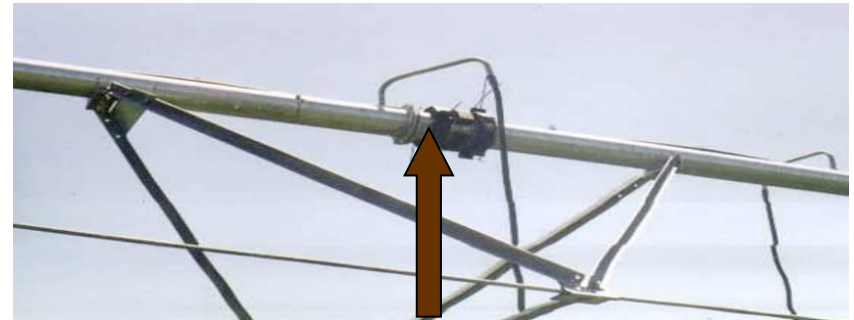
EASY TO INSTALL

Installation prior to a pipe joint for maximum penetration

Can be used on ALL types of pipes

They are non-intrusive and can also be easily retrofitted to new equipment.

- ☞ No moving parts
- ☞ No tools
- ☞ No maintenance required
- ☞ Portable
- ☞ Non-intrusive



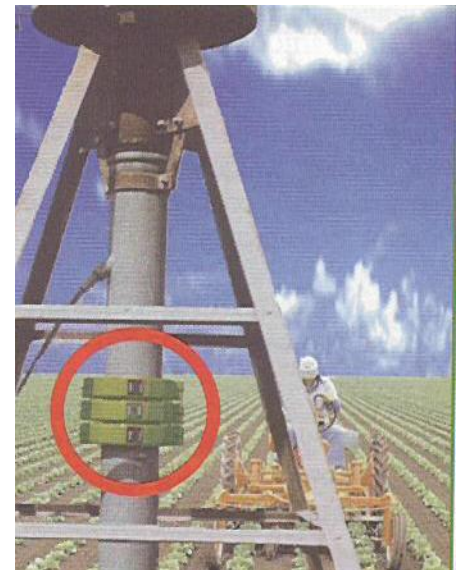
IMPACT

Hard water scale in commercial and industrial water processing equipment is extremely costly, both in downtime, maintenance and chemicals. The Irrigation Water Optimizers ionically hydrate and dissolve the scale build-up, resulting in scale-free piping and processing equipment. It also neutralizes caustic water by binding the hydronium and hydroxyl ions to the water molecules. The result produces a neutralizing effect on the pH of the water.



HOW IT WORKS

1. Soil holds moisture longer encouraging overall growth and saving water costs.
2. Increased root growth due to increased absorption of the dissolved mineral and nutrients means higher yield and higher profit.
3. Water conservation equals less man hours, less maintenance and less energy required to pump and irrigate, and lower water acquisition costs.
4. Increased fertilizer efficiency is due to the fertilizer being more readily absorbed by the stimulated root activity and not being wasted in run-off water.
5. The de-scaling of piping and clogged water jets is due to the changes in surface tension of the water, and improves the life of the irrigation system.



BENEFITS

- ☞ Dramatically Increases Crop Yields (30% - 150% Reported)
- ☞ Dramatically Enhances Germination time, and Root Development
- ☞ Substantially Increased Profits and Reduced Time to Market.
- ☞ Reduces Fertilizer and Chemical Pesticide Needs by 50%
- ☞ Environmentally Safe
- ☞ Eliminates Scale Build-Up and Minimizes Sprinkler Head Maintenance
- ☞ Reduced Water Use +/- 40%
- ☞ Reduced Energy Use
- ☞ Never Wears Out, No moving Parts
- ☞ Easy To Install, see Installation Instructions Supplied
- ☞ Lifetime power Warranty



The Granfel Green Agricultural Water Optimizer increases growth and improves the quality of fruits, vegetables, flowers and field crops.

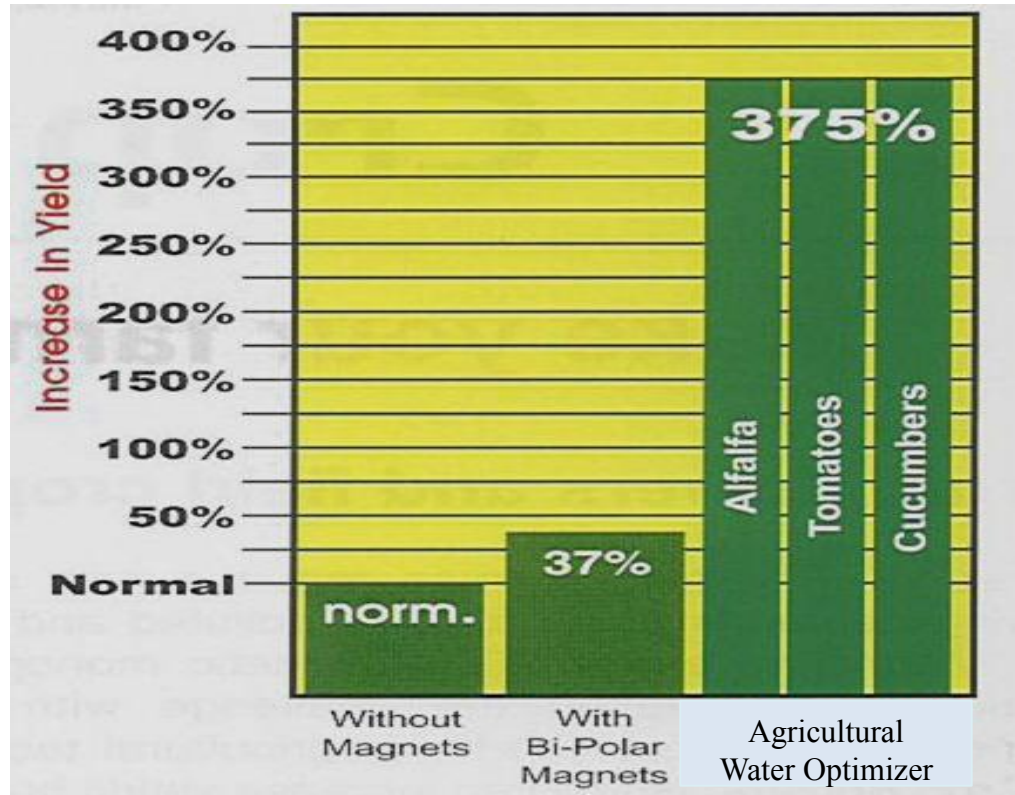
MORE BENEFITS...

- ☞ Works on all piping - steel, PVC, copper
- ☞ Balances pH without dangerous chemicals
- ☞ Buffers pH, neutralizes corrosive water
- ☞ Reduces use of flocculants and soap
- ☞ Reduces algae and biocide requirements
- ☞ Reduces or eliminates costly maintenance and downtime
- ☞ Increases thermal transfer efficiency
- ☞ Requires no power, salt or chemicals
- ☞ Saves fuel and energy costs
- ☞ Naturally softens water through reduced surface tension
- ☞ Unconditional money-back guarantee



TEST COMPARISONS

FRUIT — VEGETABLES — GRAINS



LEMONS



With Agricultural
Water Optimizer

Without Agricultural
Water Optimizer



Left Lemon – Magnetized!
Right Lemon – NO Magnetized!

CORN FIELD



**Drought conditions with Agricultural Water Optimizer
on irrigation water produced 95% of normal yield for
corn.**

23% yield without Agricultural Water Optimizer

COTTON FIELD



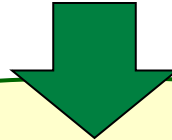
Agricultural Water Optimizers were attached to watering system. It was a dry, hot year and was watering continuously from May to Sept. Cotton produced 1376 lbs. of lint p/acre.

His neighbour without Agricultural Water Optimizer using the about the same amount of water yielded between 700 and 800 lbs. lint p/acre.

MAGNETIZED SEEDS & ROOT SYSTEM

☞ The physiological method of definition of magnetized seeds productivity is in measuring the length of the embryonic root.

☞ It was experimentally proved that plants with good speed of growth of the embryonic root during transition from heterotrophic to autotrophic type of nourishment are more productive and create a more developed root system.



Increase harvest by 12 – 36%
In some cases, up to 100% and more!

Increase germination rates substantially!
Harvest & ripen your crop earlier!
Spend 30 – 50% less on seed material!

SALINE WATER & IRRIGATION

When irrigating with salt water, salts deposit in plants and decrease cellular circulation.
Hard salts deposit in soil's capillaries, making it non-permeable.

Preliminary magnetization of salt water:

- ☞ Changes molecular structure of salt (sodium chloride) in the water.
- ☞ Prevents formation of incrustations in the pores of soil & plants.
- ☞ Is almost twice as effective when it comes to washing out salts from the soil, as normal water.
- ☞ Washes away difficult to remove nitrate sulphates from the soil, and the effectiveness of soil magnetization and desalination remains even during water mineralization.

ANIMAL-BREEDING



Livestock automatically choose magnetized water for drinking.

With our Agricultural Water Optimizer saline water can be used for drinking water.

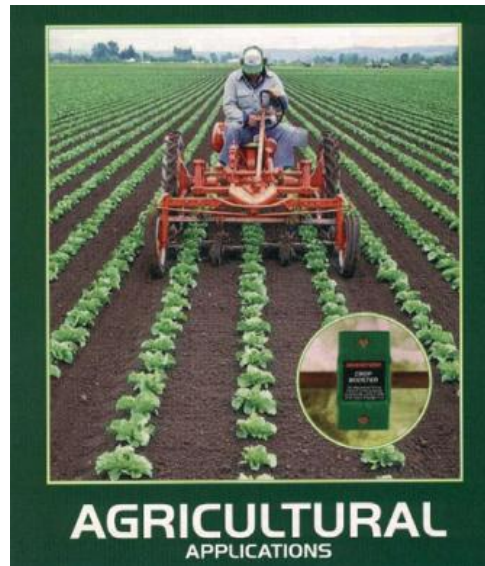


- ☞ Allows for an accumulation of protein and not fats in animals' bodies.
- ☞ Provides high quality meat due to less fat accumulation.
- ☞ Improves taste quality of meat.
- ☞ Increases fat content of milk.
- ☞ Reduces the firmness of the udder and allows for easier milking.
- ☞ Increases healing effect of cows suffering from mastitis and increases their ability to resist diseases.

- ☞ Install Agricultural Water Optimizer on water pipes close to the drinking apparatus.
- ☞ Negative polarity has shown great improvements in health benefits.
- ☞ With Positive polarity, you can use higher levels of saline water for drinking water for animals.
- ☞ Tip! Install Agricultural Water Optimizer on the main line that supplies milk after milking the cows, to increase storage time of milk in containers before its consumption.

SPECIFICATIONS

- ☞ Material: Permanently magnetized ceramic alloys
- ☞ Power Rating: 3.5 Million Gauss Oersted energy units
- ☞ Units per system: Determined by system size & design



OTHER APPLICATIONS

Agricultural use is not limited to farming alone but also can be implemented for:



- ☞ Irrigation Systems
- ☞ Greenhouses
- ☞ Drip Systems
- ☞ Large Pivot Water System
- ☞ Misting Systems
- ☞ Lawn Sprinkler System
- ☞ Golf Course Irrigation



Organic Soil Enhancer

Contains Sumagrow™



**“Organic Soil Enhancer solves environmental problems
with nature’s own resources”**

HOW IT WORKS

Microbes and enzymes provide Organic Soil Enhancer, with the ability to create products that safely remediate pollutants while maintaining the natural balance of the Earth. Our Organic Soil Enhancer provides safe, environmentally-friendly, and economical alternatives to the use of the harsh, and often dangerous, chemicals and fertilizers available on the market today.

The agricultural industry is in need of technologies which will allow them to produce higher yields and higher quality in a more environmentally-sound manner without compromising the health of the crop or the soil. Organic Soil Enhancer intends to meet this need through highly differentiated product offerings.

Organic Soil Enhancer can be used in small gardens, lawns, farms, food plots, houseplants, flower gardens, and basically anywhere plants are grown.

You Don't Need a Green Thumb With Our Products

These pictures can give you an idea of the difference our products can make. These flowers on the right were watered with a diluted solution of the Organic Soil Enhancer products while the flowers on the left were just given water. No other care was given and well, the pictures speak for themselves.



ABOUT ORGANIC SOIL ENHANCER

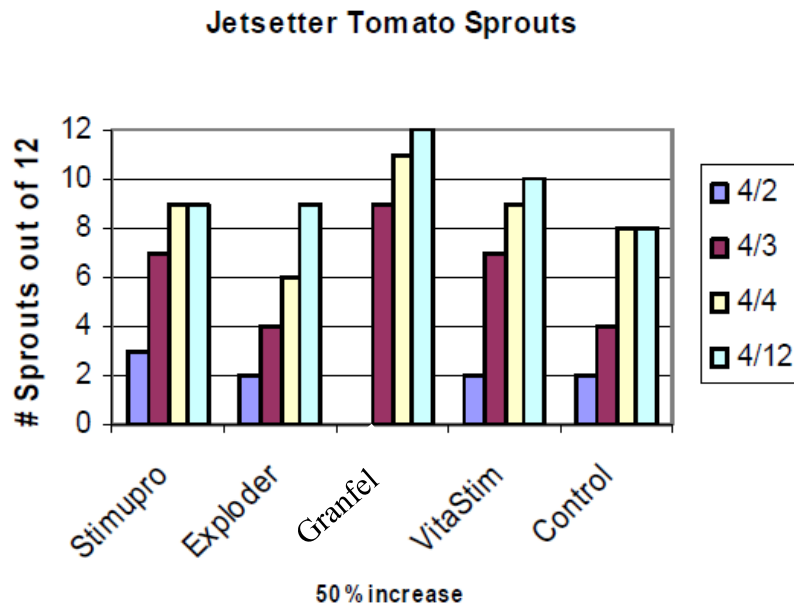
Our products are 100% natural. They do not contain genetically modified (GM) bacteria, hybrids, or growth hormones, irradiation, or harmful chemicals. Organic Soil Enhancer is organic and not petrochemical.

Microbial growth enhancers aren't a new idea. In fact, there are several other products on the market today that make some of the same claims that Organic Soil Enhancer does; however, there are four main features which differentiate Organic Soil Enhancer from all other biological competition:

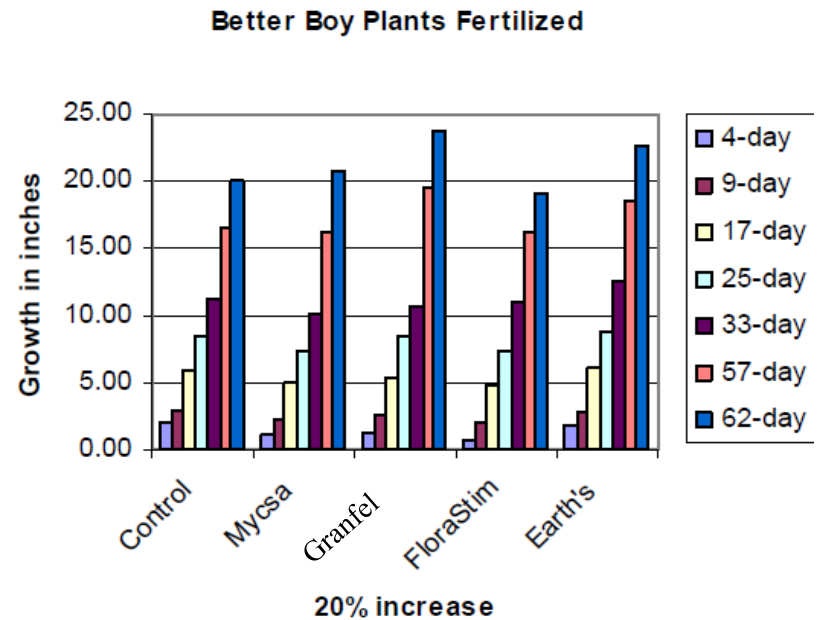
- ☞ 30+ of strains of microbes
- ☞ High **concentration** level of microbes achieved
- ☞ Variety of functions performed
- ☞ Not only do they work, they work well

ABOUT ORGANIC SOIL PRODUCTS

Organic Soil Enhancer decided to test its product against some of the others on the market. The two charts below show the results:



Left: These Jetsetter Tomato Sprouts were started in peat disks on 3/26/07. By 4/03/07, We had outperformed the competition.



Right: These Better Boy tomato plants were purchased on 4/02/07 from a local nursery. Although results were pretty equal in the beginning, by day57, we proved to be the best.

WHAT DOES ORGANIC SOIL ENHANCER CONTAIN?

Microbes

- They are produced from strains of microbes that are cultivated and blended in our own laboratories. Every product has at least 20 strains of microbes. Our products are the most complete product on the market, with at least six functions per product, and multiple strains per function. They contain (or have the ability to produce or mobilize) vitamins and minerals, and adjust their environments by correcting the pH and allowing greater efficiency in water utilization.

Humates

- The Penta-Green microbial formulations also include humates which are the backbone of healthy soil. Humates promote the growth of beneficial microbes and give the soil the proper compaction, cation exchange capacity, and the ability to retain water and nutrients while making them readily available to plants.

Micronutrients

- Our products contain various elements including calcium, iron, zinc, copper, and several others that fulfill the nutritional and elemental needs of plants in trace amounts.

BENEFITS

- ☞ Increases crop yield
- ☞ Improves nutrient & water uptake
- ☞ Improves root & 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 putrefication

CHARACTERISTICS OF HEALTHY SOIL

Characteristics of Healthy Soil

Physical characteristics of healthy soil include less compaction and less clay. Compacted soil and clay will not have necessary spaces to hold air, water, and beneficial organisms.

Chemical characteristics of healthy soil include proper Cation Exchange Capacity, proper balance of macro and micro nutrients, and a balanced pH.

Biological characteristics of healthy soil include a diverse population of beneficial, effective microorganisms as well as small animals, such as insects and earthworms which have positive effects in the soil and for the plants by reducing disease, decomposing organic matter, and making necessary nutrients available.

NITROGEN USE AND ORGANIC SOIL ENHANCER

Penta-Green Organics products are formulated with a balance of nitrogen-fixers, nitrifiers, and decomposers to make the most out of all the available nitrogen. When using Organic Soil Enhancer recommended nitrogen input can be cut by 1/2 to 2/3, and in some cases, completely eliminated.

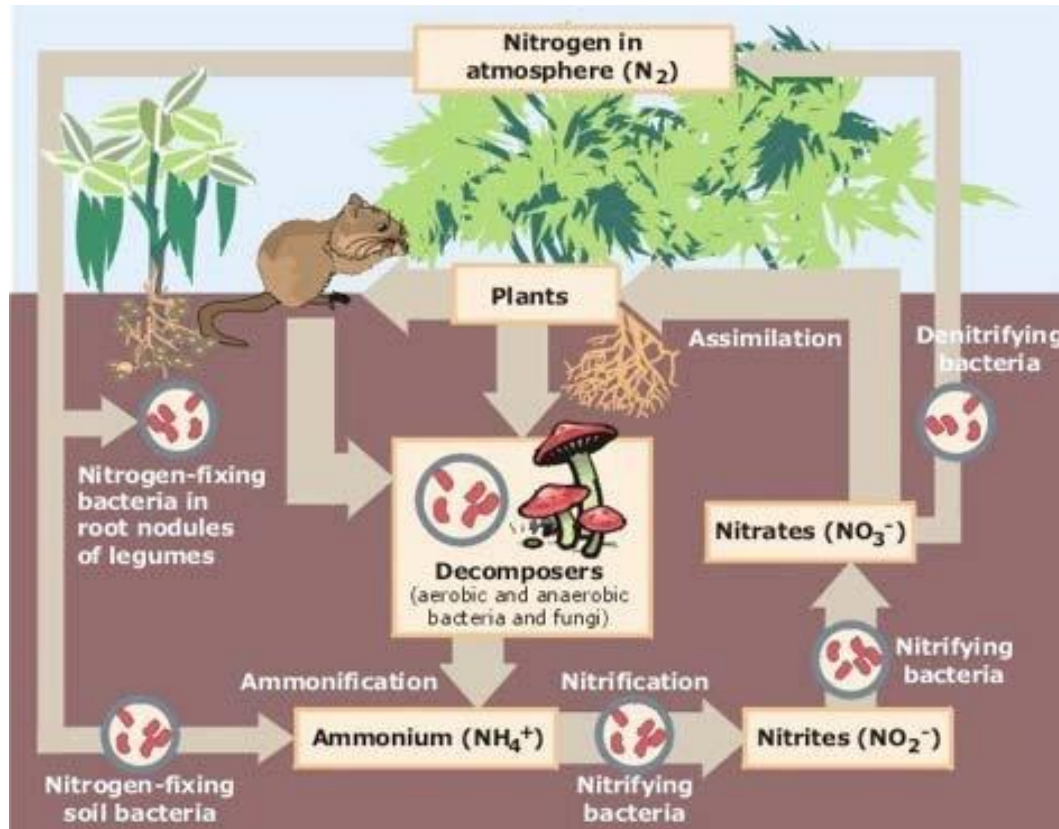
Typical soil, that has not been depleted from abuse and/or overuse, has a total nitrogen concentration that would usually be adequate if it were in available forms, and if the chemical properties of the soil, such as pH, salinity, etc. were in proper range.

Nitrogen exists in the soil in basically three forms:

1. Organic—animal waste products (urea) and other decaying matter
2. Ammonium ions— NH_4^+
3. Nitrate ions— NO_3^-

95-99% of the nitrogen in soil is in an organic form that is not available for uptake by plants. Plants can only uptake ammonium and nitrate. If there was a key to unlock the organic nitrogen in soil, then the fertilizer use and consumption could be reduced significantly. With the cost of fuel and fertilizer going up, causing food and other prices to rise, it would be in the best interest of our economy and environment to utilize all the available nitrogen that already exists in most natural soils.

NITROGEN USE AND ORGANIC SOIL ENHANCER



ORGANIC SOIL AMENDMENT PRODUCTS

Granfel Green Premium Plus is formulated with just the right proportions of humic acid and organic matter to stimulate growth of beneficial microbes and plants and to help improve the physical and chemical health of the soil. Spray dilution over soil before or after planting to improve germination. It can also be used in irrigation system and as foliar spray for improved growth and production. Use 1 gallon of concentrated product per acre, diluted.



Granfel Green Wildlife Supreme is formulated specifically for wildlife food plots to build and restore health of the soil which in turn improves the physical health of the wildlife game by providing a higher nutrient quality in their food source. 1 cup diluted treats about 2500 sq. feet of soil. You can treat during planting, and it can also be used as a foliar spray.



ORGANIC SOIL AMENDMENT PRODUCTS

Granfel Green Lawn is formulated specifically for lawns to build a strong turf in difficult to grow areas. It helps to stimulate plant growth while assists in improving the physical health of the soil to help maintain a beautiful, healthy lawn. 1 pint of product, diluted, treats about 5000 sq. feet. You can spray over the soil during planting or on mature turf throughout the year to maintain a healthy lawn. Can also be used on trees and shrubs at any time in the growth stage.



Granfel Green Basic Slag is a natural by-product that contains readily available phosphate, lime, iron, magnesium, manganese and other micro-nutrients. Economical way to “sweeten” sour soils. To use, spread out evenly over the soil and till into the soil. 5 pounds of product covers approximately 100 sq. feet.



THE GREENHOUSE EXPERIMENTS

Our proprietary polymicrobial blend was formulated by Dr. C. A. Reddy and Dr. Lalithakumari J., both of whom are leading scientists in their fields. They were tested by Drs. Reddy and Lalitha in greenhouses located at Michigan State University.

The experiments were conducted on a variety of crops, and the results were astounding. For example, when compared to controls, corn height increased by 40.3%, eggplant 41%, wonder bush beans 40%, tomato 16.6%, soybeans 71.1%, pea purple hull 50%, and okra 32.6%.

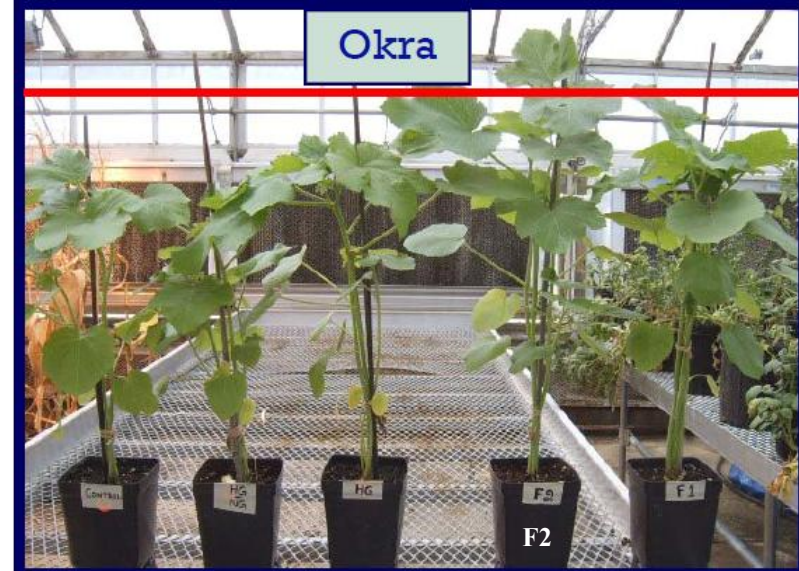
Significant increase in yield was also observed. For example, mean weight of each fruit of tomato increased by 88%, and total yield increased by 400%; okra yield increased by 258.4%, and rice yield by 301%. In general, the F2*-treated plants appeared healthier and showed early flowering and fruiting with good root nodulation in legumes.

The results indicate that polymicrobial formulations such as F2* reduce input for nitrogen fertilizers and pesticides, enhance productivity of a broad spectrum of crops, non-polluting, and contribute to the conservation of soil health.

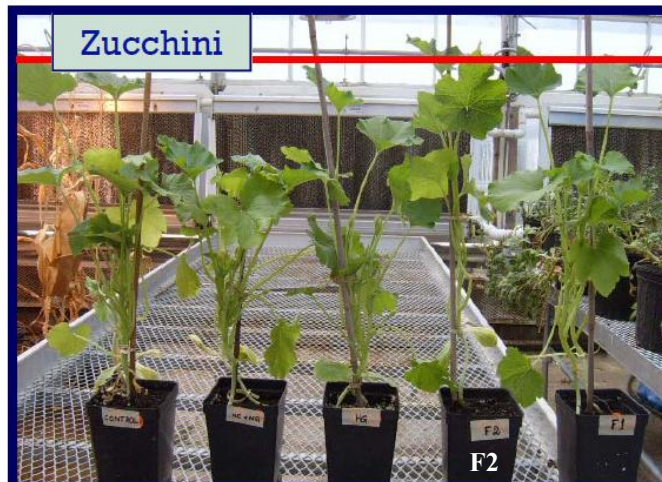
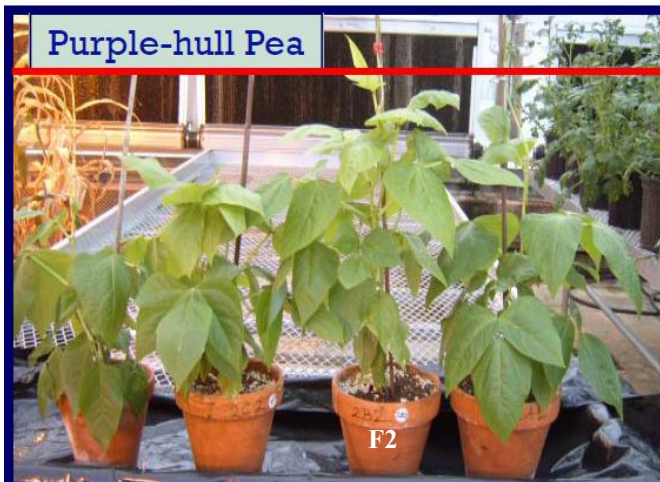
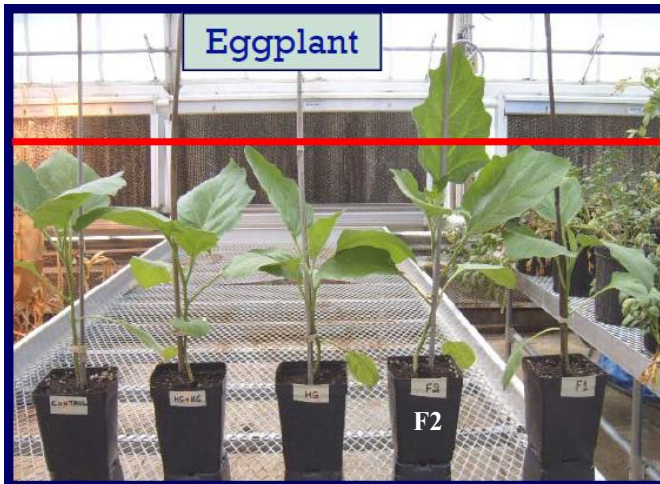
THE GREENHOUSE EXPERIMENTS

The following photographs were taken during the Greenhouse Experiments. In many cases, there was a significant different in height between F2* and the others. Even when heights were comparable, the fullness of the plant treated with F2 was greater than the others.

*F2 is the formulation that Granfel Green Soil uses for its soil amendment products.

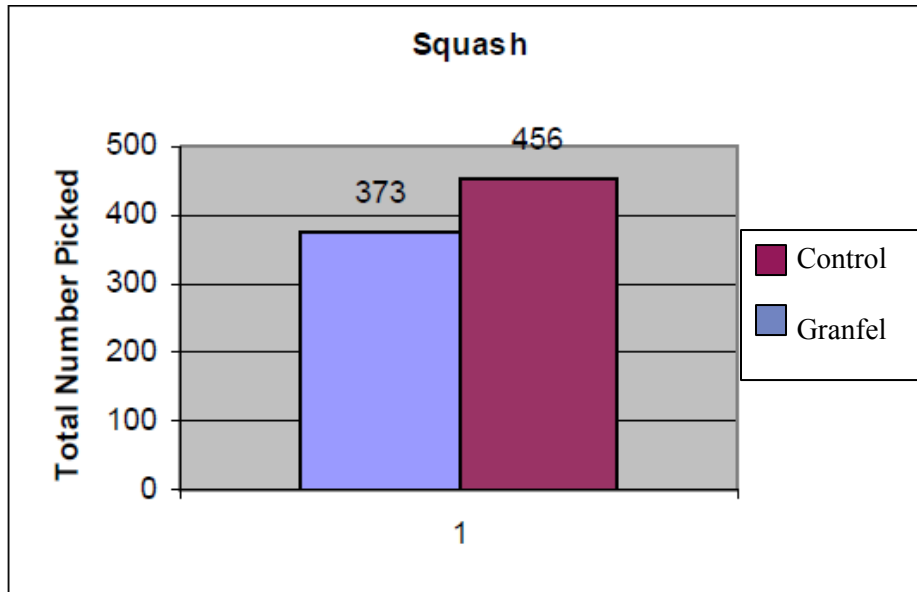


THE GREENHOUSE EXPERIMENTS



Test Comparison: SQUASH

When we treated our squash with Organic Soil Enhancer, our plants not only produced more fruit, but the fruit was larger when compared with plants that weren't treated with our product.



Test Comparison: COTTON



Fertilizer + Granfel Green Soil



The test shown was conducted on Danny Quall's farm in Jonesboro, AR. Danny grows 1500 acres of cotton in addition to other crops that he treats with a normal fertilizer routine. Danny chose two 10 acre plots of cotton, one of which he treated with our products in conjunction with his regular fertilizer, the other he treated with his conventional fertilizer methods.



Fertilizer Only



Test Comparison: COTTON

Here are the results:

- ☞ The 10-acres treated with our products produced 100 lbs per acre *more in lint* cotton than the untreated.
- ☞ The treated cotton also produced \$10.00/acre *more in cotton seed than the untreated.*
- ☞ The treated cotton matured 10 days *earlier* than the untreated.
- ☞ The treated cotton's tap root was an average 6" *longer than the untreated.*
- ☞ The treated cotton's stalk circumference was 30-40% *larger than the untreated.*

The fact that the treated cotton matured 10 days earlier than the untreated, gives the farmer an economic advantage over other farmers because of the higher prices for early cotton and lessens the risk of exposing the crop to the rainy season that comes during late harvest.

**After the cotton reached maturity, it was exposed to a storm that produced winds in excess of 50 mph. The treated plot stood tall and undamaged. The untreated cotton was pushed to the ground and damage was inflicted to the stalk and cotton bolls.

Test Comparison: OTHER CROPS

Tomatoes



Peas



Blueberries



Bell Pepper



Organic Soil
Amendment Products
were
used on several other
plants as well. Here
are a few pictures
from our fields.

TESTIMONIALS

Southern Backwoods Adventures

"We could see results within a few days after treating our existing plots. The plots that we treated the soil before planting are up to 6 inches higher in growth than the other plots. Also with the lack of rain that we have had over the past weeks until now, granular fertilizer would have burned our plots out, where the Penta-Green products once sprayed on the soil and plants sat waiting until the rain to fully activate and begin enhancing our plots growths with no damage to existing plants."

Michael Lee

Host - Southern Backwoods Adventures

www.SouthernBackwoods.com

I would just like to take this opportunity to thank you for introducing us to your soil amendment products. We used the your products on the pastures we have for our cows to graze.

We applied them in the spring of 2007 and for 2007, the total gross production was an improvement over using basic Triple 13; but the big difference was when the grass came up this spring for 2008. The grass came out earlier and 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. We look forward to any new products that you introduce.

Hope your company keeps coming up with more improvements for the agricultural community.

Rhonda J. and Don E.. Beleck

**Granfel Energy
Conservation**

**PENTA-GREEN ORGANICS
Agriculture Products**

Granfel Energy Conservation

Granfel Power Inc.

www.granfelenergyconservation.com

www.penta-green.com

www.fuelaidssystem.com

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