



MicroSoil®

Above and Beyond Organics™



NutrientRich™ Grown with MicroSoil® - A Natural/Sustainable Approach for Farming

MicroSoil® NEWSLETTER

WINTER 2015-2016

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Photo: Blueberries ("Arandanos" in Spanish) Grown with MicroSoil® in greenhouses in Spain during 2015 were heavier and more uniform in size with more fruits per vine than blueberries grown without MicroSoil®.

New MicroSoil® Bottle

We are pleased to introduce our new 1-liter MicroSoil® Boston Round Bottle, designed for greater durability and easier storage and shipping. Below are the specifications for ordering bottles & customized labels.

MINIMUM ORDER OF 1,000 BOTTLES IS REQUIRED FOR ALL BOTTLES WITH CUSTOMIZED LABELS.

SPECIFICATIONS FOR 1-LITER BOSTON ROUND BOTTLE

Category: Roll Labels

Size: 11" x 5.625"

Artwork Size: 10.5" Wide X 5.5" High

Text Formats: PDF, PDF Vector Art Format (best), JPEG, PNG;

Minimum 300 DPI

Paper: Custom Printed / Side: Front Only

Lamination/Coating: Gloss

Outdoor Laminate Material: White Vinyl
(Outdoor/Indoor)



We've received excellent feedback from our initial bottle/label orders shipped to Spain. The SAPEC Agro Espana MicroSoil® customized

Our New Label Designs

MicroSoil®



MicroSoil's Life Enriching Line of Agricultural Products

From LEFT: EnRich™ N48, PureFulvic™ Trace Minerals & Elements, TripleRich™, MicroSoil®, MacroFoliage®, FreshWash™ for Fruits & Vegetables, BioTech/AgriZymes™ MPX-923

Also, for our larger customers who desire customized bottles...

New Bottle Filling & Labelling Equipment

In an effort meet the demands of customized liter bottle orders and upgrade our filling and labeling capabilities, we are pleased to announce that we are expanding our operations here in Las Vegas, Nevada. Our new entry level semi-automatic bottle filling & labelling equipment is scheduled for delivery and should be setup for full operational capacity by the end of this year.



PHOTO LEFT

The 4-head Gravity Tabletop Filler has a filling capacity of 600 bottles per hour.

Bottles are shown under the fill heads—with the push of a button or foot pedal, the filling cycle is activated for all 4 bottles at one time. Filling automatically stops at preset fill head setting defined by user.



PHOTO RIGHT

The semi-automatic Labeling Machine has a capacity of 1200 labels per hour.

MicroSoil® Report: Green Beans in Texas



J&B Farms in Frio Town, Texas, is a very large grower of sweet corn, green beans, broccoli, southern greens, cabbages and winter wheat for some of the largest food chain stores in the USA. Mr. David Jones, J&B's owner, initiated use of MicroSoil® on the farm's crop of green beans beginning in late August, 2015. The crop was supervised by Mr. Mike McHugh, J&B's agronomist.

Despite this crop of green beans being planted, grown and harvested under extreme conditions that were much less than ideal, the plant quality and yields were outstanding.

Immediately after the crop was planted on August 25, 2015 in Pivot Number 6's irrigated field, it was subjected to very high temperatures in excess of 100°F, exceptionally dry conditions and an irrigation well failure. This almost resulted in the total loss of the crop and having it "plowed under" within three weeks after it was planted.

However, based on previous success using our written protocols with **MicroSoil®**, Mr. Jones and Mr. McHugh had opted to purchase enough **MicroSoil®** to treat the entire pivot. Knowing we typically accelerate growth rates and improve plant health, they decided to give the **MicroSoil®** a week or two to work once the irrigation

- ⇒ **Compared to previous green bean crops in the same area, the MicroSoil® crop grew more quickly and produced stronger plants.**
 - * **The plants were higher, fuller and heavy with beans.**
 - * **The root structure was more robust with significantly more root hairs and a higher number of nitrogen nodules for Rhizobia nitrogen-fixing bacteria, a clear sign of healthier soil and plants.**
 - * **There was more residual plant material recycled to the field to build organic matter and sustainable soil health for subsequent crops.**
- ⇒ **However heavy rains from the Gulf region in mid-October immediately followed by the remnants of a hurricane that came up from Mexico caused extensively wet fields and delayed the harvest.**
- ⇒ **The plants were so heavy with beans that some of the plants heaviest with beans bent dropping some of the beans to the ground. This made the crop difficult to machine harvest, lowered the yield and subjected parts of the crop to field rat damage.**
- ⇒ **Despite all these problems, the MicroSoil® treated crop produced 342 crates of beans per acre compared to normal yields of 250 crates, a yield increase of 37%.**
- ⇒ **The grower reaction was very enthusiastic. Based on the results of these green beans Grown with MicroSoil® and other crops Grown with MicroSoil® at the same location, Mr. Jones and Mr. McHugh have indicated that they are**



PHOTOS ABOVE: Immediately after the crop was planted on **August 25, 2015** in Pivot Number 6's irrigated field, it was subjected to very high temperatures in excess of 100°F, exceptionally dry conditions & an irrigation well failure. This almost resulted in the total loss of the crop & having it "plowed under" within three weeks after it was planted. As of **September 9** the crop was barely above ground and did not look very healthy.



PHOTOS ABOVE: But by **September 23**, with the help of MicroSoil® the crop was looking much better and the decision was made to continue the crop to harvest.



PHOTOS ABOVE: By **October 8**, the crop had unquestionably returned to health. Plans were made to harvest the crop on or about just after the middle of October.



PHOTOS ABOVE: Almost immediately a low tropical depression in the Gulf caused rain to fall continuously and it continued as the remnants of Hurricane Patricia worked its way across northeasterly into south Texas. By **October 28** the crop had still not been harvested, was incredibly robust and the fields were dry enough to allow the harvest to begin. The harvest was to begin on October 29.



PHOTO ABOVE LEFT: As of the day of the harvest, **October 29**, the plants were heavy with beans.

PHOTO ABOVE RIGHT: Some of the plants were so heavy and weakened by ongoing wind and rain that they allowed the beans to drop to the ground where they were difficult to machine harvest and subject to being eaten by field rats.



PHOTOS ABOVE: The root systems, however, exhibited the typical massive root structures routinely associated with all plants grown with MicroSoil®. Also, green beans naturally involve Rhizobia, which are soil bacteria that fix nitrogen after becoming established inside the root nodules of beans, peanuts, alfalfa and other legumes. The photos above show the unusually large number of root hairs and nitrogen-fixing root nodules (Rhizobia bacteria) on the green bean plants, which too, is common whenever

...continued from pages 3 & 4...

Harvesting the Green Beans

Machine harvesting began on October 29, 2015. PHOTO 1 BELOW shows dumping of the harvest machine into the transport trailer. PHOTO 2 shows a view looking forward from the hopper of the harvesting machine. PHOTO 3 looks out back of the harvest machine over the dump gate. Note the thick layer of residual material left in the field after the harvest behind the dump gate. The large, healthy plants and the robust root structure produced more than the normal amount of residual plant material that was recycled into the field to build organic matter and sustainable soil health for subsequent crops.

The overall yield from the field was 342 crates per acre, a 37% increase of over the 250 crates per acre that is normal. All this was accomplished with the help of **MicroSoil®** despite the challenges presented by atypical weather. Late the night of the harvest, October 29, the rains came in again



PHOTO 1



PHOTO 2



PHOTO 3



PHOTO 4

"The grower reaction to this MicroSoil® green bean harvest has been very enthusiastic. Based on the results of these beans Grown with MicroSoil® and other crops Grown with MicroSoil® at the same location (see PHOTOS below), Mr. Jones and Mr. McHugh have indicated that they are going to use MicroSoil® and our protocols on their entire 18,000 acre operation beginning immediately in November 2015."

Mr. Dave Shimp, Director of AgRevive™ LLC & USA Distributor



These photos of cabbages (LEFT) and carrots (RIGHT) show other healthy, robust food crops Grown with MicroSoil® in the same area of Texas during October & November 2015.





EU Distributor, Futerri GmbH

October 2015 – Photos below show MicroSoil® promotional event and outdoor luncheon in Almeira, the greenhouse area of southern coastal Spain. The event was sponsored by SAPEC Agro Espana.



Mr. Juame Banchs, MicroSoil® Representative (left) and SAPEC Agro Spain marketing manager (right) with MicroSoil® outdoor exhibit and luncheon.



MicroSoil® presentation for 100+ participants.

World of MicroSoil® Market Update

In order to help our new international markets develop, we are now providing informational materials translated into Spanish, Portuguese and French to be used for new business development in Central America, South America, Europe and the Caribbean. We are also updating our website design to include instant page translation into



SRI LANKA

We are pleased to announce that the first order of **MicroSoil®** has been shipped to one of the largest “Ceylon Tea” grower groups in Sri Lanka, Bogawantalawa Tea Estates PLC. The group is bringing in our **MicroSoil® Products & Protocols** to their growing operations in order to help establish viable natural/sustainable farming methods & practices.



PHOTO of Bogawantalawa Tea Estates, where fine single estate



USA

Distribution of MicroSoil® products in the USA is accelerating rapidly now with our newly signed distributor, Mr. Dave Shimp, President of AgRevive™ LLC, servicing 10 states (North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, Texas, New Mexico and Arizona). The markets in Florida and Texas are now open as corn, beans, cabbage and carrots Grown with

HYDROPONICS Grown with MicroSoil®

PHOTOS below show tomatoes Grown with MicroSoil® in coconut fiber in a controlled hydroponic facility in Spain. Notice the long rows of “boxes” that are holding the coconut fiber.



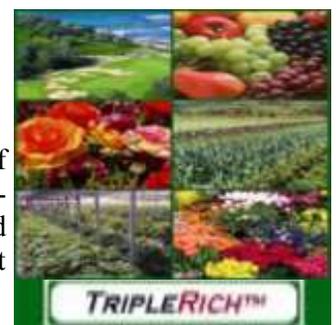
At the request of some of the largest hydroponic growing facilities in Mexico, European Union and the USA, Biomasters Global is now offering a specially formulated MicroSoil® Agriculture Products & Protocol combination of MacroFoliage® and TripleRich® developed specifically for use in hydroponics. Like all MicroSoil® Agriculture Products, MacroFoliage® and TripleRich™ are PGR FREE and GMO FREE.



MacroFoliage® is a proprietary concentrated formula with up to 74 **PureFulvic™ Trace Minerals & Elements** and a customized blend of food grade, natural occurring nutrients, amino acids, and enzymes. What makes **MacroFoliage®** unique is its Electrical Conductivity (EC), our proprietary stabilization process of select ingredients, and the exceptionally high concentration of nutrient values of (15 plus mS/cm² or EC 15.0+ or CF 150+). These characteristics make **MacroFoliage®** very cost effective as a foliar spray designed for heavy

use in large greenhouse and hydroponic operations.

TripleRich™ is a 100% natural balanced nutrient formula consisting of a combination of **MicroSoil®, PureFulvic™ Trace Minerals & Elements** and **MacroFoliage™**, with 13% Non-Leachable Nitrogen (derived from GRAS Approved amino acids). **TripleRich™** is designed specifically for utilization in all types of controlled greenhouse and hydroponic environments that require optimum growth and high quality crop yields.



REQUEST FOR NEW MicroSoil® REPORTS

Every year numerous new crops are grown using our **MicroSoil® Life Enriching Agriculture Products** and we need all the help we can get from you to pass on these results for our website, archives and newsletters, in order to share them with all those affiliated with our company.

We greatly appreciate **MicroSoil®** crop result write-ups with photos, or simple comparison pictures, such as "Before & After", "Grown with **MicroSoil®** & Grown without **MicroSoil®**", or just "**MicroSoil®** and Control". Even a single picture of a plant grown with **MicroSoil®**, with some pertinent information or caption, tells a story.

As always, we appreciate any and all information and photos you have regarding your experience with **MicroSoil®**!

MicroSoil® RESULTS ONLINE

New Website Launch Eminent!

The company contracted to do our new website encountered several difficulties, which have delayed our target completion date. Thus, we continue moving slowly toward finalizing the new website design in order to better communicate information about our **MicroSoil® Life Enriching Products** and **TailorMade™ Fertilization Protocols**, and information about our activities around the world. For the convenience of our distributors and growers worldwide, key website pages will be available in multiple languages.

Our most exciting new online feature will be our extensive catalogue of **MicroSoil®** results available for anyone to peruse. We currently have catalogued over 160 different **MicroSoil®** studies covering more than 105 different crop varieties in 16 different countries, from 1996 to the present day.

The archives are growing every day as our distributors, growers and interested research entities continually conduct use our **MicroSoil® Life Enriching Agriculture Products** on crops and plants in controlled environment greenhouses and open fields around the world.

The studies in our archives were all conducted independently, without interference or supervision by Biomasters Global. All **MicroSoil®** archives are presented in their original formats in English and many are also available in Spanish, Portuguese, French and Chinese.

Hydroponic & Greenhouse Food Crops Grown with MicroSoil® in Spain





AGRICULTURE NEWS FROM AROUND THE WORLD

There's No Need to Label GMO Plants, FDA Says

NBC Health News - November 23, 2015

<http://www.nbcnews.com/health/health-news/theres-no-need-label-gmo-plants-fda-says-n468301>

Genetically engineered plants that have been approved for sale don't need labels — and people can be assured they're safe to eat, the Food and Drug Administration said Monday. The FDA issued new rules about labeling GM plant foods at the same time as last week's approval of the first genetically modified (GM) animal approved for the U.S. food market — a salmon engineered to grow faster than usual. **This sets the U.S. apart from the European Union, Australia and China, which require the labels.** Consumer and environmental groups have long pressed for the FDA to require labels on GM foods, but the FDA says there's no need.

Something to Think About

**Why no GMO labeling when 90% of Americans demand it?
Is this the influence of large agribusiness corporations
over the FDA?**



Bees “get a buzz” from pesticides

BBC Science & Environment News, April 23, 2015

<http://www.bbc.com/news/science-environment-32399907>

The decline of bees around the world has increased focus on synthetic neonicotinoid chemical insecticides. Neonicotinoids contain synthetic chemicals similar to nicotine, which as a plant toxin is damaging to insects. Europe currently bans the use of neonicotinoids on all flowering crops.

Neuroscientists at Newcastle University in the UK tested whether honeybees and bumblebees preferred food containing neonicotinoids over untreated food in the laboratory. They were surprised to find that sugar solution containing two of three neonicotinoid pesticides appeared to be attractive to bees and "may act like a drug" targeting the brain.

"Bees can't taste neonicotinoids in their food and therefore do not avoid these pesticides," said lead researcher Prof Geraldine Wright. "This is putting them at risk of poisoning when they eat contaminated nectar. Even worse, we now have evidence that bees prefer to eat pesticide-contaminated food. Neonicotinoids target the same mechanisms in the bee brain that are affected by nicotine in the human brain."