


Product Information & Case Studies

Version June 2020





GGO
INTERNATIONAL MANAGEMENT

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Go Replenish Our World

Healthy Soil

Healthy Produce

Healthy Crops

Learn More About Us

Go Replenish Our World

GGO International Management formulates and manufactures sustainable solutions for agriculture. Our products are an integral component for all types of agriculture conventional, organic and hybrid operations. GGO International Management's soil amendments, specialty fertilizers, non-toxic pest control are used worldwide.

Our sustainable products bridge the gap separating high efficiency conventional farming from nutrient-dense organic crops; Our products and protocols provide farmers with ways to reduce input costs while increasing yields; helping - rebuild soils depleted or destroyed by years of unsustainable farming pratices.

We continue to develop solutions for issues facing global agriculture: global climate change, agricultural water issues, rising populations, and global food security.

Value And Vision

Go Replenish Our World

GGO International Management focuses on providing the best organic, natural, and sustainable technology to all forms of agriculture, and businesses which affect land. We lead the revolution of sustainable agriculture by example. We research and develop solutions for farming, and sustainable agriculture industry. GGOIM leads the way in developing protocols and practices that benefit food security, sustainability, minimizing use of harmful chemicals, pesticides and herbicides Thus growing naturally and organically.

We provide services to educate and demonstrate that sustainable cost-effective agriculture can be achieved to promote healthier, safer surroundings worldwide GGO International Management continues to build and maintain relationships with funded humanitarian organizations; teaching sustainable agriculture to provide new opportunities in deprived and underdeveloped countries for the fortification of mankind.

Sustainability

Go Replenish Our World

GGO International Management uses nearly 100% sustainable materials in our products to build sustainability in your land and crops while reducing irrigation, fertilization, and other input needs.

With the most leading edge proven technology available in the market today we are not in the business of just selling products. We can confidently say we go beyond what most organizations in our field of expertise do.

Our products, and support system provides the ability to our clients to rebuild their soil, learn new sustainable agricultural techniques.

Furthermore with our expertise we are able to introduce a full new eco-system,over time allowing our clients to grow like our ancestors....

It is all about agricultural applied science where we make that difference.

Our Way

Go Replenish Our World

We believe in long business relationship in order to create a sustainable business for you, helping you tackle the agricultural problems your country faces today.

We do not want to just sell you a product as a foreign company….

We want to help you build a business where you can employ local people, and source raw materials from either your own country or local region. We continue to work with you on new technology and provide scientific, agricultural and horticultural expertise.

We always provides ongoing knowledge transfer. We Furthermore we work in conjunction with your local providers of organic materials in a cooperative manner for producing our products. With this approach we can build a long lasting relationship in order to build your local economy, keep costs down, meet your business needs and attain sustainability.

Farming Or Applied Science

Go Replenish Our World

The world of today is not the world of our ancestors, where our ancestors would farm with minimum effort and crops grew. The soils were rich and fertile, the food nutritious and healthy. Humans were less prone to illness, some of today's diseases were unheard of not even 100 years ago.

Did They Succeed?

To some degree they did succeed. They achieved good yields and profit in their era helping their country. A strong agricultural GDP allows a country to become more powerful which is evident in today's world. But their short sighted views and attitudes to agriculture has created a major World Food Security and Sustainability Issue. We ask you the question again. Did they Succeed? The simple answer is NO.

What Changed

With so much damage sustained to arable land worldwide that is diminishing yearly, can we simply go back to how our ancestors use to farm, change our inputs/fertilizer to organic. Unfortunately no that is not enough. To ensure that we have any chance of tackling Food Security and Sustainability agriculture today goes far beyond simple farming, it is now become an applied science. We can not expect to just use organic/natural inputs/fertilizer and hope that is enough to help us in agriculture, a very fault of humanity.

GGO International Management's products and protcols are changing the face of agriculture. Our technology usage, testing, and case studies prove this time and time again.

Why Us

Go Replenish Our World

We focus on sustainable agriculturial solutions for food growers, governments to the avid agriculturalist - creating and formulating, natural, and organic toxin free products.

Our product line can be combined with synthetic fertilizers ,and pesticides in hybrid agriculture programs - providing sustainability and a long term solution for food production worlwide.

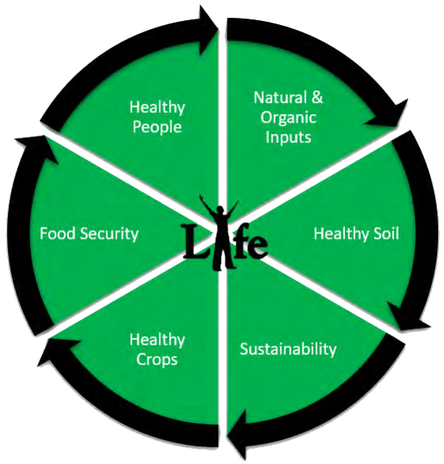
There are significant differences between us and other manufcaturers:

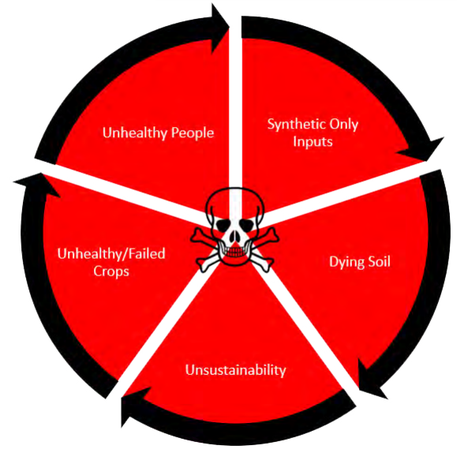
- We develops food security within your own borders
- We creates industry and jobs within your borders
- Our products foster sustainable methods in innovative agricultural solutions
- We have no identified global competition

- Technology for conventional, hybrid, and organic agriculture
- Worldwide success in cereals, grains, oilseeds, row crops and vegetables
- Sustainable materials, approaches and practices for solutions
- Reduce exposure to toxic materials
- Flagship products registered with Canadian Food Inspection Agency
- Flagship products approved for import into the European Union
- Flagship products certified compliant with USDA NOP regulations for use in organic agriculture

The Crossroad

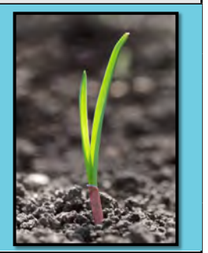
Go Replenish Our World





GGO Technology	Syntethic & Chemical Inputs
SUSTAINABLE	CHEMICAL FERTILISER ON THE NORM HAS AN EQUAL DISTRIBUTION OF PHOSPHORUS, POTASSIUM AND NITROGEN.
REPLENISHES NUTRIENTS AND VALUES IN PLANTS AND SOILS	CAN MAKE FARMING PROFITABLE
REPELS AND SUPPRESSES PARASITICAL INFESTATION AND INSECT DAMAGE	EASIER TO USE ON HIGH END TECHNOLOGY (SPRAYERS) OVER ORGANIC INPUTS
HELPS BUILD ORGANIC MATTER IN SOIL	CHEMICAL FERTILISER IS READILY AVAILABLE
ENCAPSULATED MICRONUTRIENTS HELP PREVENT LEACHING INTO GROUNDWATER	CHEMICAL FERTILISER IS PRODUCED ARTIFICIALLY. SOME INGREDIENTS MAY CHANGE THE PLANT SO IT MAY BE HARMFUL TO OTHER ORGANISMS
INCREASES BRIX AND MINERALIZATION OF PLANT TISSUES	THEY CAN STUN GROWTH OF MICROORGANISMS THAT HELP THE PLANTS GROW. THINGS AROUND THE PLANT MAY NOT GROW
ENABLES PLANT ROOT SYSTEMS TO UPTAKE MINERALS AND NUTRIENTS IN THE SOIL	SEWAGE, SLUDGE, TOXIC METALS AND OTHER TYPES OF GARBAGE ARE FREQUENTLY ADDED TO INCREASE THE AMOUNT OF FERTILISER
BUILDS STRONG AND DEEP ROOT SYSTEMS	CHEMICAL FERTILISER HAS A LOT OF ACID THEY CAN BURN THE SKIN AND CHANGE THE SOIL QUALITY
HELPS PLANTS ENDURE STRESS SUCH AS DROUGHT, FROST AND EXCESS WATER	CHEMICAL FERTILISER DAMAGES THE SOIL AS WELL AS OTHER ORGANISMS AROUND THE PLANT. IN THE LONG RUN SOIL MAY BE TOO DAMAGED TO PRODUCE ANYTHING
HAS PROTECTIVE ROLE FOR PLANTS ROOTED IN SOILS WITH HIGH METAL CONCENTRATION	
INCREASE WATER ABSORPTION CAPACITY	
HELPS PREVENT THE RAIN FROM WASHING PHOSPHORUS OUT OF THE SOIL	
CONTINUED USE PUTS BACK BIOLOGICAL, NUTRIENTS THAT PLANTS AND SYNTHETIC FERTILISER TAKE OUT THUS REDUCES INPUTS REQUIRED EACH YEAR BECAUSE THE SOIL IS HEALTHIER	
PROVIDED PROPER USAGE OF OUR PRODUCTS CAN HELP TO REDUCE INPUT COSTS AND INCREASE YIELDS.	

GGOIM
Mother Nature's Friends



Our Product Line

Go Replenish Our World

Revive

- GGO's flagship product, Revive stimulates soil biology, specifically beneficial soil bacteria and fungi.
- Revive helps build organic matter in soil.
- Revive keeps soluble fertilizers (NO_3^-, NH_3^+,PO_4^{-2},K^+) available in the root zone.
- Revive stimulates root mass and growth.
- Revive can be customized for bacterially dominated or fungally dominated crops, soils, and environments.

Pasture Plus

- Designed specifically for grazing pasture, hayfields, rangeland, and other grasslands.
- Pasture Plus helps grasses and forage increase protein and fat levels within the plant.
- Increased protein and fat levels lowers the undigestible fraction of the feed.
- Livestock gain weight more quickly, and retain weight over winter when fed hay from a Pasture Plus hayfield.

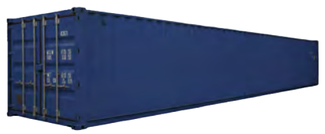
Mineralizer

- Mineralizer fulfills a crop's micronutrient requirements for iron, manganese, zinc, copper and boron.
- Mineralizer can be applied as a foliar feed or a soil drench.
- Mineralizer improves plant health, growth, and yields, with the greatest results in plants grown in soils with pH above 7, and soils high in alkalinity.
- Mineralizer is "approved with restrictions" for use on certified organic operations.
- Mineralizer is naturally chelated and complexed , and can be customized to a crop or region's specific needs.

Soil Ionizer

- Soil Ionizer increases permeability in gumbo soils.
- Soil Ionizer reduces standing water in fields.
- Soil Ionizer uses divalent cations to flocculate clay particles in soil, increasing soil porosity.
- Soil Ionizer can allow farm equipment to run earlier in the spring and later in the fall.



Our Product Line

Go Replenish Our World

Plant Armour

- Plant Armour is a sustainable, naturally based plant defenses booster.
- Plant Armour protects against varieties of pathogens including Fusarium, Botrytis, Pythium, Rhizoctonia et.al.
- Plant Armour can be applied as a foliar spray and a soil drench.
- Plant Armour reduces losses to root rot, early stem blights and late blights in grains and potatoes.
- Plant Armour can hold cationic nutrients in the root zone.

Repel

- Repel is a blend of essential oils and emulsifiers designed to prevent pest infestation in outdoor crops.
- Repel is used as a foliar spray at 1-1.5% in aqueous solution.
- Repel has no re-entry time and requires no special protective gear to handle or apply.
- Use Repel on all crops, turf, shrubs, and household plants.
- Repel poses no danger to children or animals when used as directed.

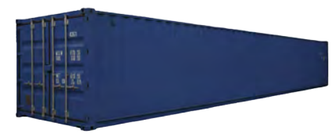
Humates

- Humates have been shown to provide a significant increase in crop yields.
- Increased root growth. Length, density and radius of plant roots.
- Better nutrient uptake capability of plants, Better ability to combat disease.
- Plant stability is enhanced.
- Better water absorption.
- Humates have been shown to consistently improve the uptake of nutrients such as nitrogen, phosphorus, and iron, as well as innumerable trace elements essential for plant health.

Repel 420

- Repel 420 protects crops, farms, and all outdoor areas from a wide range of common pests – both flying and crawling.
- Exempt from registration, and compliant with the EPA's FIFRA src. 25(b)regulations
- Complies with all state regulations on hemp and cannabis pesticides
- Will not appear on any hemp or cannabis pesticide residue test.
- Will not appear on any solvent residue test.



Go Replenish Our World

Case study

Banana Testing - India

A world leader in banana production facing national catastrophe in all areas of agriculture due to 800% more use of chemical and synthetic fertilizer than any country in the world. Crop failure, international export decline, food security, and farmer suicides - a wake up call.

Client Intro	Objectives	Results
A conglomerate growing bananas for generations based in Bangalore India	Test conventional v. GGOIM. Attempt to test replacing banned products used not allowed in the United States	Greater yield using GGOIM products compared to conventional. Healthy leaves using GGOIM products compared to conventional fertilizer which show disease.
Conventional Method	• Before planting Chlorpyrifos (30 ml) + COC (30gm) is sprayed to the soil bags (Soil drenching) • For every alternate 2nd day 19 ALL, spray is introduced to the planted soil up to 60 days • For another alternate day Chlorpyrifos (30 ml)+Biostin (30 gm) is introduced to the plants • In case Erwinia disease occurs, Streptocyclin (2 gm)+COC (30gm) is sprayed to control the disease • Everyday 50 ml of Multiplex is sprayed to the plants as nutrients	
Organic/Natural Method	• Revive Plus - 40 liters/ha in 2 x 10 liter (4.25 gal/acre) • Pasture Plus - 10 liters/ha 2 x 10 liter (1 gal/acre) • Plant Armour - 20 liters/ha (2.15 gal/acre) • PhosPlus - 600 kg/ha (535 lbs/acre) - *A custom product for our client* • Mineralizer - 10 liters/ha (1 gal/acre), applied one week before flowering	

Go Replenish Our World

Case study

Drought Testing - India

India like many countries of the world face agricultural challenges due to harsh conditions which result in crop failure or minimal yield impacting the farmers.

Client Intro	Objectives	Results
Private 7th generation farmers with over 10,000 hectares growing Jowar, Wheat, Begalgram and other crops	To increase yields and health of crop for higher returns.	During the 2 seasons the area was plagued with drought. GGOIM treated crops produced a yield, whereas chemical treated products died. During both seasons GGOIM treated products produced higher and healthier, diseases free crop compared to the chemically treated counterpart.
Additonal Information	• Tested for 2nd season crops • Tested along with chemical fertilizer for fair comparison • Tested on wheat, maize and jowar crops • Tested under dry weather conditions with little rain fall	

Case study

Sugarcane - India

Go Replenish Our World

Sugarcane has always been a “darling” of farmers. The crop can endure weather and gives farmers fix returns because the sugar mills purchase at a price fixed by the Indian government.

Client Intro	Objectives	Results
Private farmers with 25,000 hectares growing sugarcane for sugar production.	To increase yields remove diseases / sugarcane rust, and health of crop for higher returns.	Unfortunately during 3 seasons of growing the region had little to no rain GGOIM treated crops not only produced a yield, sugarcane rust was gone, and the brix level of the sugarcane increased. During all seasons GGOIM treated products produced higher and healthier, diseases free crop compared to the chemically treated sugarcane.
Additonal Information	• Tested for 3 season crops • Tested along with chemical fertilizer for fair comparison • Tested under dry weather conditions with minimal rain fall	

Case study

Wheat - Tanzania

Go Replenish Our World

A private client conducting a study with GGOIM product in Manyara, Arusha, and Kilimanjaro to overcome drought, and diseases within the region, against synthetic and chemical inputs.

Client Intro	Objectives	Results
3rd generation farmer growing wheat in 3 regions of the country.	Tackle wheat stem rust disease caused by Puccinia graminis f. sp. Tritic, reduce chemical costs, increase yields, and increase crop quality in drought arid land.	• Yield increased by 15 bushel per acre • Combination of GGOIM products tackled the wheat stem rust. • The crop was disease free. • Able to harvest in arid growing conditions • Quality of wheat increased profits.

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Case study

Rice- Somalia

A private client conducting a study to be presented to the government using GGOIM product to overcome diseases within the region, in addition growing in land destroyed by chemicals.

Client Intro	Objectives	Results
4th generation farmer growing rice.	Tackle drought arid growing conditions and protect against rice blast and other pests.	• GGOIM products addressed the rice blast and pests. • The crop was disease free. • Able to harvest in land that was arid and had previous access use of chemical fertilizers • Twenty percent more yield in the harvest compared to conventional methods.

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Case study

Maize- Zambia

An internet search by our client introduced GGOIM to them who were challenged with drought conditions impacting agriculture in Zambia

Client Intro	Objectives	Results
2nd generation farmer growing maize.	Tackle drought arid growing conditions and protect against diseases and pests.	During the first season GGOIM were engaged with severe drought with he use of our products 75% harvest was saved. During the second season maize was healthier, diseases free even with the drought conditions compared to any chemically treated counterpart.

Case study

Sand To Sustainability - Rhodes Grass

Go Replenish Our World

A private client conducting a study to be presented to the government using GGOIM product to overcome diseases within the region, in addition growing in land destroyed by chemicals.

Client Intro	Objectives	Results
Ministry of Agriculture and Fisheries Sultanate of Oman	To test the response of BBO liquid fertilizer for growth and development of two grass species. Rhodes grass (Chloris gayana L.) and local Buffel grass.	GGOIM products build healthy and nutrient rich pasture grasses, hay, and fodder from the root zone up. This has been proven for all types of grasses - from Rhodes grass to fescue. Full report Rhodes Grass Testing report attached

Case study

Conventional Client

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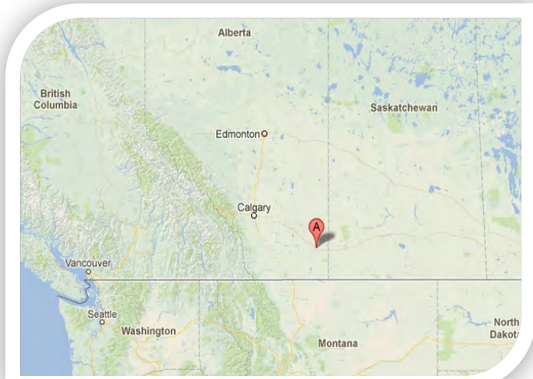
Located in the region known as Palliser's Triangle, Medicine Hat, Alberta has a semi-arid, continental climate, with cold, dry winters and warm to hot summers. The sandy soil, grassy land cover, short growing season, and dry weather make farming challenging in this region. In this region irrigation is widely used.



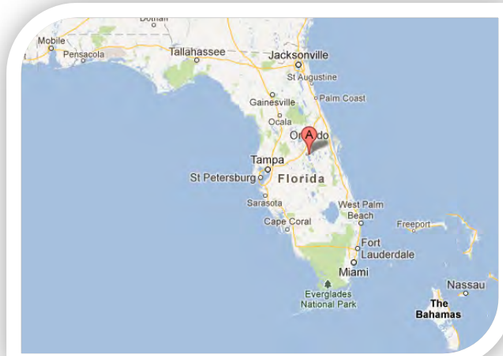
Client Intro	Objectives	Results
5th generation farmer. They grow Durum Wheat and Canola in 4,500 acres of farmland.	Reduce chemical costs, increase yields, and increase crop quality. Utilize products so that he can successfully grow cash crops multiple times disease free. Canola under conventional methods normally requires 2,3, or 4 year rotation. **$1 million plus profit increase**	• Canola had on average a 15 – 20 bushel per acre increase in yield • The canola seeds were larger and heavier . • Canola has now been farmed 5 years in a row. • Durum - a 20 bushel/acre increase. • The crop was disease free. • Canadian Wheat Board upgrade crop to grade 1. • **Higher return for wheat.**

Case study

Greenhouse Client

Go Replenish Our World

The climate of North and Central Florida is humid subtropical. High temperatures during the summer average around 37C statewide with high humidity levels. Conditions are too hot for growing most vegetables in the greenhouses during the summer season.



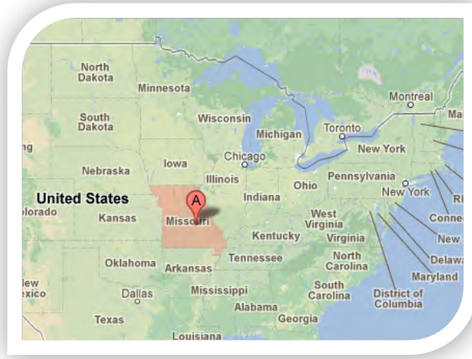
Client Intro	Objectives	Results
5 acres of vertical farm. 2,500 plants.	The client was looking for proper consultation, and due to suffering entire crop failures following recommendations by other businesses, they were simply looking for anything new in order for their business to survive. **Client now capable of year round growing with GGOIM products**	• Tripling production and sell produce in advance. • **Winter crops in Florida are now grown commercially in summer heat and have a niche business.** • Reduced employee head count Little to no disease and pests. • Increased client's greenhouse production by 65%, saved 40% on fertilizer costs and helped decrease labor by 2%.

Case study

Organic Client

Go Replenish Our World

Located in the Midwest United States, Missouri clients are Amish, a group of traditionalist Christian church fellowships which form a subgroup of the Mennonite churches. The Amish are known for simple living, plain dress, and reluctance to adopt many conveniences of modern technology.



Client Intro	Objectives	Results
Organic certified crops (hairy vetch, clovers, rye and buck wheat), beans, soybeans, corn, oats, sunflower seeds, and conventional non-GMO treated seed corn and true tillage radish seeds.	Reduce reduce input costs, increase yields, increase crop quality and deal with new drought issues in the region. **Drought resistance with GGOIM products provided client with business risk mitigation**	• Kernels for the various crops (cereal, sunflower, corn and wheat), were heavier and denser. • A 20% increase in yields with the first application of GGOIM products • Wheat kernels where the largest which living Amish farmers had ever seen or grown anywhere • **Drought issues – this farm continued to be productive and doubled crop output from other farms in the region.**

Case study

University Client - India

Go Replenish Our World

"The University has carved a niche for itself on the national and international scene. Among the Agricultural Universities in the country, the University of Agricultural Sciences, Dharwad is well known by virtue of its high academic standards, research achievements and effective transfer of technology."

Client Intro	Objectives	Results
Experiment- Randomized block design with three replications. Sowing- 6-12-2012 at a spacing of 30 cm X 7.5 cm	Field investigation on medium deep black soils under irrigated conditions. Crop - Wheat. After harvest, results were measured using several standard measures of harvest: plant height, number of shoots/m (row length), TDM (total dry matter (kg)/m row length), seed weight (g/m row length), 100 seed weight, seed yield (kg/ha) and straw yield (kg/ha).	In All cases but one, application of GGOIM products, along with recommended fertilizer dose RDF), and farmyard manure (FYM), provided the greatest yields, with a combination of GGO products and a fully organic program with the second best yield in these trials. Least yields were produced with control groups.

GGO INTERNATONAL MANAGEMENT

Thank You

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