



MISSION PROJECT 1: GROW KITS

Overview

Millions of people in sub-Saharan Africa are starving for want of a single morsel of food. While international relief efforts are abundant and increasing in scope every year, the need is so great that many people remain unserved.

The WHT "Grow Kit" program is the realization of the "teach a man to fish" story. We provide remote jungle villagers in Uganda with the tools and techniques to grow organic food year-round.



Our Mission Statement

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About Us

World Hunger Team, founded in 2009 in Nashville, Tennessee, answers Jesus' call to 'Feed my sheep' by creating food systems in underserved areas.

In Namalemba Village, Uganda, we funded a 7-acre research farm and maize milling operation, along with cultivating various crops and raising livestock.

Solution

We supply villagers with plant growing bags, non-GMO food crop seeds plus all-natural mineral nutrients to grow 100% organic food. We teach them how to grow a wide range of crops in any sunny spot.





We give the local villagers a **CLOSED-LOOP SYSTEM** to grow a wide range of crops, anywhere. All necessary components are included in a lightweight heavy-duty shrink wrap bag for easy transport into remote jungle locations.

Each Grow Kit includes everything needed for local villagers to grow their own organic food, year-round. Including:

- Instructions in the local language and pictures.
- Non-GMO seeds for their ancestral crops as well as high-yielding greens and beans.
- All-natural mineral nutrients (same as found in manure, minus the cow) to grow maximum-nutrition organic greens, vegetables, herbs and even fruits.
- Any local water, stagnant or clear, can safely be used on the plants. Raised bags minimize damage from local animals and rodents.
- Burning soil in the sun before filling bags kills crop-eating nematodes that ruin many ground-grown crops.

Our Ask

This is the lowest cost / lowest tech program we offer, using low cost yet long-lasting materials.

Since this program launched in 2022, we have distributed Grow Kits to over 30 villages outside of Mbale, Uganda. An additional 20 villages are being added this year.

We are seeking individual and corporate sponsorship of this program, at any and all levels.

Costs

5 GROW KITS = \$250
10 GROW KITS = \$500
20 GROW KITS = \$1,000
50 GROW KITS = \$2,500
100 GROW KITS = \$5,000
250 GROW KITS = \$12,500
500 GROW KITS = \$25,000





MISSION PROJECT 2: GROW TENTS

Overview

Many people would love to grow their own fresh organic food. But with today's active lifestyles and long work hours, who can tend to a garden?

WHT has a solution: a self-contained indoor grow tent that can simultaneously grow up to 106 food plants in one small 40" x 80" tall footprint. Little to no day-to-day care required.



Unit easily grows Swiss chard, lettuce, collard greens, small-bush tomatoes, herbs, and more



Offers an ideal work/ therapy environment for individuals with disabilities, ADHD, PTSD, ADD, and others.



Rare produce selections can yield exceptional profits, and the unit can even grow high-end mushrooms!

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Solution

Our versatile grow tent supports greens, vegetables, herbs, and fruits. Features include:

- Lightweight aluminum frame
- Full-spectrum LEDs
- Self-watering hydroponics
- Plant resilience for 3 weeks.





We propose to place larger numbers of our hydroponic grow tents at community centers, senior centers, churches, and other social organizations. We call this our **INDOOR COMMUNITY GARDEN** program, and our goal is to establish 'mini-farms' that can be staffed by people of all ages, with any disabilities.

The food that is grown can be sold locally at improvised Farmer's Markets, in exchange for WIC credits or cash. The money can provide income for hard-to-employ individuals.

As more organic food is consumed in the community, health indicators will rise. And as community involvement grows, neighborhood spirit and satisfaction will rise as well.





Our Ask

We are seeking SPONSORS who want to place one or more units with a local organization of their choice. The sponsor will manage the installation with WHT remote support.

We are also seeking individual and corporate sponsorship for the placement of these units by WHT.

Inquiries from other non-profits and social service institutions are welcome.

Costs

1 GROW TENT = \$1,000 10 GROW TENTS = \$10,000 25 GROW TENTS = \$25,000





MISSION PROJECT 3: INDOOR COMMUNITY GARDEN

Overview

This program facilitates the installation of an indoor mini-farm into existing unused spaces. It is an ideal way to introduce large volumes of organic greens, vegetables, and fruit into urban communities where conventional gardening or farming is not practical. The farm requires little to no technical skill, so anyone can be employed.



Plants grow at waist height, making it easy for anyone to work with them, including those who are wheelchairbound.



A room the size of a high school gym can yield up to 2,000 heads of lettuce or collard greens per month.



Flat bed systems are constructed on-site using simple materials to keep costs low while maintaining integrity.

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Solution

WHT has developed a wide range of indoor growing solutions, ranging from conventional hydroponic growing beds to smaller tent units. We also offer semi-automated conventional growing systems for outdoor cultivation.





Many organizations have paid substantial fees to commercial hydroponics companies for the construction of state-of-the-art growing facilities at their locations. Some installations have cost up to \$1 million, an investment that can be challenging to recoup.

WHT follows the "Mother Earth News" approach, where we build PROVEN systems using local materials and supplies for the structural work. The LED lights and specialized equipment are sourced at wholesale prices directly from China. The bottom line is a high-volume, high-output indoor farm that costs significantly less than the "brand name" systems. The secret? The plants DO NOT KNOW THE DIFFERENCE. They thrive and grow just as well!





Our Ask

Our Unique Selling Proposition is that we purchase our LED lights and specialized supplies directly from the manufacturer, which helps lower costs.

We welcome inquiries from any and all community organizations interested in initiating an indoor farm project. While we do not provide direct funding for these projects, we can assist you in applying for the numerous grants available in 2023.

Additionally, we are open to general funding requests for local installations sponsored by WHT.

Inquiries from other non-profits and social service institutions are welcome.





MISSION PROJECT 4: TOWER OF LIFE

Overview

Millions of people around the world are starving due to food shortages, and even more struggle to obtain potable water for their daily needs. We believe that any solution for providing food and potable water in deprived communities must possess four nonnegotiable attributes:

- 1. Simplicity
- 2. Systemic approach
- 3. Local sustainability
- 4. Cost-effectiveness

That's why we've developed a unit that collects, stores, and purifies rainwater while growing organic food (utility patent pending).

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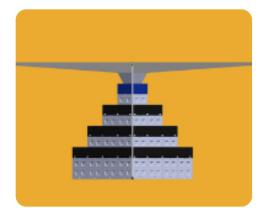
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Solution

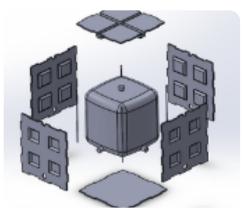
The WHT Tower of Life:

- Collects, purifies, and stores 1,363 gallons of rainwater.
- Grows 60 linear feet of crops with solar-powered drip irrigation.
- Ideal for water-scarce locations.
- Provides food and water wherever rain falls.





The large rain-collection tarpaulin operates 24/7, collecting precious water resources any time of the day or night.



Our patent-pending water tank design allows flat shipment of part and assembly on-site.



The system features optional black plastic tanks. They can heat up to 170 gallons of water in a few short hours.

What sets this unit apart from other systems on the market:

- Ships flat on a pallet, enabling delivery to any location using an industrial drone (no local roads needed).
- Collects, stores, and purifies up to 1,360 gallons of rainwater, providing fully potable water.
- Grows 70 linear feet of food crops and automatically drip irrigates them with all-natural hydroponic nutrients.
- Can be manufactured anywhere in the world with a conventional 3D printer.
- No access to the power grid or water supply is required.
- Utility patent application is pending, with 18-month international patent treaty protection.

Our Ask

This unit will be manufactured by our sponsor company, 'Innovative Food Growing Systems,' a for-profit company. We are seeking potential entrepreneurial partners, investors, and funders to be an integral part of our team at IFGS. The ideal partner would have a track record in new business start-up, management, and growth, as well as a track record of flipping companies to the right A-list manufacturers.

Inquiries from other non-profits and social service institutions are welcome.





MISSION PROJECT 5: FOOD FACTORY

Overview

A complete system for growing large-scale amounts of organic food in unused indoor spaces.

Does your community have empty or abandoned buildings that are sitting idle? Here is a system to make them productive once more.

This is a large-scale commercial version of our 'indoor community garden' program. It allows people of all ages, of all skill sets and backgrounds, to grow fresh organic food indoors, year-round. It uses non-circulating hydroponics (Kratky Method) to easily grow greens, vegetables, and fruit in large volumes. The system is 100% custom, so it can be set up just about anywhere.

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Solution

The WHT Food Factory program will be customized to your needs and available resources. We use LOCAL carpenters and electricians to install the system, providing income and jobs to your community.





As workers learn the system, they are able to produce reliable crop yields and proven ROI.



We start with tested and proven seeds for the highest-yielding and nutritious crops, with predictable yields.



Traditional foods, such as Collard Greens and Mustard Greens, are in high demand in food-challenged areas.

The WHT Food Factory system is more than just a room full of hydroponic equipment. We offer complete training and management tools. It's the key to growing large quantities of greens, veggies, and fruits. Participating organizations can use the output however they'd like:

- Food pantry for area residents
- Meals on wheels
- Sell the produce for salaries or capital
- Supply local restaurants and soup kitchens

The other key advantage of this system is that it puts SIGNIFICANT volumes of ALL-NATURAL FRESH ORGANIC FOOD into the local community. As more fresh food is consumed, community health indicators will improve as well.

Our Ask

We are seeking to partner with other non-profits, NGOs, and communitybased organizations.

There are a great many grants available in the category of urban agriculture. Let us put together a custom plan for designing, funding, building, and staffing a Food Factory in your area.

Inquiries from other non-profits and social service institutions are welcome.

Franchise inquiries welcomed.





MISSION PROJECT 6: ALL NATURAL PESTICIDES

Overview

A major impediment to successful farming in remote locations of sub-Saharan Africa is the lack of affordable bug deterrents. Bugs can consume over 50% of the food yield of an unprotected farm.

That is why it is important to seek out new nature-based ways of reducing pest damage in the field. This is known as bioprotection or biocontrol. And unlike conventional chemical pesticides, products in this category are derived from natural sources, making them a safer alternative with minimal environmental impact.

Above all, our goal is to use existing plants and other resources in the countries we serve. This will make the cost of bug control more affordable.

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Solution

We have all heard "old wives' tales" about natural ways to kill pests, but few have been field-tested in the poor countries of Africa.

We are resurrecting many of these old formulas, recipes, and treatments, and implementing them with great success in Uganda as well as here in the United States.





The naturally occurring Capsaicin in hot peppers is ideal for deterring leafeating bugs.



Neem oil is an effective pesticide that gets rid of over 200 species of insects. We are harvesting it in Uganda.



To kill nematodes prior to using the local soil in our raised-bed farming, we bake it in the sun. Highly effective!

Neem Oil Extraction: We have access to literally hundreds of acres of neem trees in the unrestricted jungle at our mission location in Mbale, Uganda. We are seeking resources to establish an oil-pressing and packaging factory there.

Pepper Spray: We have successfully tested a leaf-eater treatment at our 7-acre farm in Namalemba Village, Uganda. It is a mixture of hot peppers, dish detergent, and baking soda. It naturally eliminates the bugs yet is harmless to birds, bees, other insects, and humans!

Leaf-based Pest Treatments: Oils can be easily extracted from native plants such as Khakibos, BlackJacks, and Tomato leaves. As a spray-on treatment, they can be highly toxic to pests yet totally harmless to other creatures.

These and more programs are now underway.

Our Ask

We are seeking to partner with other non-profits, NGOs, and communitybased organizations.

There are a great many grants available in the category of urban agriculture. Let us put together a custom plan for designing, funding, building, and staffing a Food Factory in your area.

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MISSION PROJECT 7: ALL NATURAL FERTILIZERS

Overview

Africa's agricultural yields lag behind the rest of the world, primarily due to the high cost of fertilizer. Farmers in Uganda, for example, pay about twice the price per bag of fertilizer compared to farmers in the United States, despite earning less than 5 percent of U.S. incomes. WHT is researching new ways of creating fertilizer incountry, using methods long known to farmers:

- Planting crops that have deep-seeking roots that capture rare minerals from underground.
- Harvesting Water Hyacinth plants from Lake Victoria, where they are an invasive species.
- Creating "weed teas" that extract minerals from inedible plants for use in gardens and farms.

These are just a few of our many test areas.

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Solution

Did you know that the reason animal manure is so effective in organic farming is due to the weeds and plants they eat?

Nature teaches them to eat specific plants that have deep-burrowing roots that capture rare minerals. We use those same plants!



Current Programs

Alfalfa as Fertilizer: This is the core crop we propose to grow and harvest as the base of our all-natural fertilizer product(s).

Alfalfa is a legume with edible leaves, shoots, and seeds. Sprouted seeds are used in salads, sandwiches, and soups, or eaten as is. They can also be ground as flour to add nutrition and flavor to baked goods. Additionally, the leaves can be used to make tea. However, the REAL SECRET of alfalfa is that its roots run as deep as 15, 20, even 25 feet or more. They seek out deep-lying minerals such as zinc, copper, molybdenum, and bring them to the surface. In most of sub-Saharan Africa, few plants send their roots down this far, making it VIRGIN TERRITORY for "mining" these minerals naturally. Plus, the crop is basically a weed and thrives in difficult and often unusable places.

How They are Used in Fertilizer: First, we extract the essence by making a tincture or 'tea' from the leaves, which are boiled with water in a large vat. When the "tea" turns brown, it holds the minerals, especially Potassium (the "K" in N-P-K fertilizer), which is in short supply in much of Africa. Another piece of good news about alfalfa is that the plants will continue to produce for 3 to 5 years, and some say even up to 20 years!

Test crops of Alfalfa are in production at our 7-acre farm in Namalemba, Uganda.



Alfalfa roots extend as deep as 20ft, extracting phosphate and potassium from the subsoil while also fixing atmospheric nitrogen in their roots.



The agriculture industry is eager to find alternatives to synthetic chemical fertilizers. This is due to the greenhouse gas emissions associated with their production, as well as the environmental effects of runoff.

Our Ask

We are seeking corporate partners who want to share in and support our research efforts. Our goal is to establish a factory in Mbale, Uganda to create environmentally safe and economical fertilizer products. We are open to outside proposals.





MISSION PROJECT 8: LOW-COST CHICKEN COOPS

Overview

The development of the poultry sector in sub-Saharan Africa is constrained by factors including diseases, the cost of bird housing, the high cost of feed, and the difficulty in providing correct chicken nutrition.

WHT has developed a closed-loop system that we believe can involve more families and communities in the chicken rearing business. Our modular chicken coop design is currently in development. It primarily uses sustainable materials sourced locally and is partnered with a program to grow the vast majority of the chicken food on-site using materials and seeds we supply.

More chickens mean more healthy food.

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Solution

Build low-cost chicken coops using locally grown bamboo, low-cost fabric panels sewn by local artisans, and ordinary PVC connectors.

Many high-tech solutions for poultry raising are now available at low cost, bringing winning technology to new areas.



Current Programs

The biggest challenges facing potential chicken farmers in sub-Saharan Africa are a) Money, b) Delivery, and c) Experience.

At WHT, we believe we have solved these issues. We have designed a super lightweight modular chicken coop that can be AIRLIFTED to any cellphone coordinates using a commercial drone. The key construction material is bamboo, used to frame the structure in modular 1-meter-square panels. The corner connections are standard PVC joints, and the panels are made of machine cloth, which is essentially heavy wire mesh with a plastic coating strong enough to withstand predators like foxes or wolves.

The walls in the nesting area will be made from bamboo lengths locked together into a plank. This material will also be used to create the ramp to the nesting area and the doors.

Our goal is to bring each 10-12 bird coop in at a cost of \$200 before shipping.



Bamboo is one of the fastest-growing plants on earth. It is remarkably strong and can easily create a sturdy and secure chicken coop structure.



Corner connectors are standard offthe-shelf PVC piping. A strong epoxy glue is used to bond the bamboo poles to the connectors, creating a very durable 1-meter square panel.

Our Ask

Our goal is to secure funding for establishing the Uganda-based factory to assemble these units. Subsequently, we will wholesale them to the largest chicken companies for distribution to the end customers. We are actively seeking funding and business associates to implement this project.





MISSION PROJECT 11: HYDROPONIC BUCKET GARDEN

Overview

It's no secret that growing food in poor regions of sub-Saharan Africa can be challenging. The soil is often depleted of nutrients from excessive previous usage. Then comes the challenge of small animals and rodents eating the crops. And finally, there is the unreliability of rain to water the crops.

By growing crops using hydroponics, virtually 100% of the minerals needed to grow healthy food are present. By raising the beds up 3 feet off the ground, they are difficult for pests to disturb them. And by providing a protected environment for the plants to grow, they thrive and produce food with a very predictable success rate. Our solutions add in the factor of EXTREME VALUE - making it a win/win for everyone involved.

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Solution

By utilizing locally sourced materials, we will construct hydroponic gardens to support the local area.

The materials used include:

- Used Tires
- Used Wooden Pallets
- 5-gallon Plastic Pails

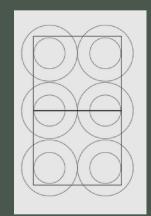


Current Programs

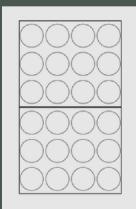
The illustration on the left demonstrates the arrangement of two layers of 6 tires beneath two side-by-side pallets, each measuring 40" wide by 48" tall.

On the right, you can see 12 standard 5-gallon plastic pails placed on each pallet. In a relatively small 7 x 4-foot space, we can cultivate 24 food plants.

Each of these 24-plant gardens has a total initial cost of less than \$300 when landed. This equates to a startup cost of less than \$12.50 per plant, for a system with a service life of over 10 years. The only ongoing expenses are for nutrients and seeds, both of which are relatively inexpensive. This stands in contrast to conventional hydroponics systems that can cost tens or even hundreds of thousands of dollars to establish.



Two layers of 6 tires make the base for our pallets to sit on.



You can place twelve 5-gal plastic pails on each pallet.

One of the biggest hurdles in designing any food growing systems for sub-Saharan Africa is the access to materials. It is often cost prohibitive to bring building supplies in from far distances. Our solution aims to use items that can be found easily and affordably.



Used tires are easily found, and so are used wooden pallets.



We place two tires in a stack and top them with pallets. Five gallon plastic pails are places on top of the pallets to form a waisthigh work space to grow plants.

Our Ask

By keeping the cost of our programs low, we seek to expand them rapidly to help tackle world hunger.

If you would like to sponsor a garden in sub-Saharan African, please reach out us. Your one-time donation could continue to feed people for many years to come.