Project Harvest - Guatemala A project of the Niagara Warehouse of Hope Report on Year One of Five Year Plan



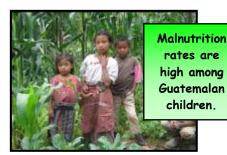
November 2005 to October 2006

Guatemalan families display the results of their work to improve their lives.



Introduction

Project Harvest began in year 2000. In the first three years a group of Project Harvest field workers from Canada worked with Guatemalan partners. They gave life to a food security program that has great potential to improve the lives of rural campesino (farming) families.



The original concept of the project was to initiate a transfer of technology consisting of a sweat hose irrigation system for family size vegetable gardens during the period of

Two women assemble parts of a sweat hose irrigation system during the installation process.



the dry season. It became evident based on the experience gained in dealing with the everyday problems

encountered that a more integrated development model was needed to address the crisis of a lack of food as well as a shortage of water.

Therefore, a five year plan was developed integrating the four core elements that a food

security program needs to be successful in meeting the goal of enabling project participants to become self-sufficient. The plan consists of providing participants with enough knowledge and ability to independently feed and maintain the health and well being of their families. The four core elements are: participation and empowerment; organic, diverse and ecological practices; nutrition education; and diversifying livelihoods.

The first year of the five year plan began with assembling a small team of Guatemalan workers. Oto Bravo, an agricultural specialist, coordinates the project's work plan with agricultural promoters Isaura Manzo and Olga Tumax. There are also six



people or "community links" who support the project by accompanying participants on a regular basis at the community level.

Description of the Primary Area of Work

The primary areas of work are in two different regions of the country. One is situated



in the western highlands departments of Totonicapán and Sololá which have temperate to cold climates. The second area is in the eastern



department of Chiquimula which is arid

> Adolescents tend garden in the arid area.

and has a very hot dry climate. (Not represented here is the support work provided to other partner organizations that are using our irrigation systems.)

The project works in fifteen communities. Within these communities there are eight community organized gardens and seventy four individual family size



gardens. Family size gardens range from 15 to 100 square meters. Community size gardens range from 500 to 1500 square meters. Most of the gardens began with very infertile soil conditions.

Core Elements and a Summary of Results of Year One

One: Participation and Empowerment

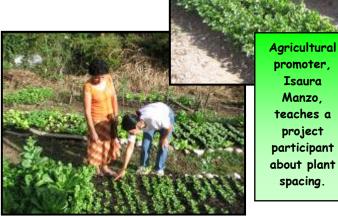


Building on the work of the previous years, fifteen local Project Harvest groups have now been established. There are approximately one hundred and sixty seven participants each representing a family that will have an average size of five

members. Over ninety percent of participants are women.

There are presently eighty two either new or established gardens. This year participants have learned to install or re-install the sweat hose irrigation system.

This includes learning how to clean and keep the irrigation hose in a safe location



when not in use, as well as reinstalling it at the beginning of the next dry season.

Six "community links" ("enlaces") were selected and are being trained. They are now working to give continuous in-the-community assistance to participants.

Two: Organic, Diverse and Ecological Practices

Soil conditions in the majority of gardens at the start of the project were very poor. Given this situation, soil conservation was a major focus this year. Teaching how to integrate



soil conservation techniques was emphasised. Participants were taught how to compost or improve their composting techniques. Soils were

improved by incorporating more organic material into them. Cow and chicken manure was distributed as two key ingredients to improve the fertility of the soil. Planting of live barriers will help prevent soil erosion.

Plantin help

Soil erosion. Soil erosion is a serious problem. To counteract it participants began to learn how to introduce plants to create live barriers as preventative measures against erosion.

Plant diversity is promoted by increasing the variety of plants grown. A large selection of seeds was sown directly into the soil and seedlings were produced in mini- nurseries. A number of these plants are indigenous to the area where the people live. They

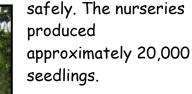


have characteristics that make them well suited to the growing conditions. Participants are encouraged to save seeds when and where possible.

Heavy rains during the rainy season cause many seeds to be washed



twelve communities were taught how to construct small nurseries. They are above ground covered structures enabling seedlings to grow and be protected. When the seedlings reach an appropriate size they are transplanted



away before they are able to grow roots deep enough to anchor them. This year emphasis was placed on the establishment of seed nurseries. Participants in



Construction and use of raised

> nurseries increased plant

production and

survival.

Recycled tires are used as large vegetable planters.



Participants have learned how to make

large planters from inverted rubber tires. They are placed in underused spaces around their homes.

Sufficient water for irrigation purposes during the dry season has become more problematic due to the changes in

climate. This year water needs in the communities have been assessed. Experiments in water conservation techniques were carried out.

One was the filtration of grey water as a technique for conserving water for irrigation

purposes. These filters

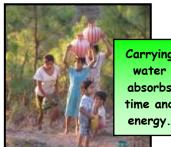


allow water used for the washing of clothes to be filtered through rock, gravel and charcoal. It achieved only limited success due to a damaging greasy residue that was deposited

on the interior walls of irrigation hoses.

The capture of rain water has proven to be a better solution for water self-sufficiency. Experiments with the collecting and saving of rain water from the roofs of houses

have proven to be successful. Water is deposited in five to ten thousand litre storage tanks for irrigating gardens during the dry season.



Carrying absorbs time and energy.

The project in some communities has

taught participants how to construct and use an inexpensive manual water pump to haul water. This eliminates the arduous task preformed by women and

children of carrying buckets of water every day hundreds of meters, to fill the barrels to irrigate the gardens in the dry season.

Three: Nutrition Education



Cooking and nutrition



Poor

nutrition leads to poor health.

One goal of this

A pump eliminates need to carry water up hills.

project is not only to support participants to grow produce for their family, but also to help them understand the importance of

a garden in obtaining a balanced diet. This year we have begun to teach the role of plants in maintaining good health. Using

vegetables produced in the gardens, nutrition and cooking

demonstrations have been given.





Four: Diversifying Livelihoods

Families need a source of income for essential nonfood items that cannot be produced in a



will add to her income in Choquisis.

Conclusions

garden plot. This year the project began promoting the concept of producing

surplus items such as vegetables and flowers to sell at market.

Carrots harvested in Puerta de la Montaña to be sold in local market.

Over the course of this past year all of the above mentioned work and much more not recorded here, produced significant steps toward helping the project participants to achieve a level of food security and self-sufficiency.



Participants, particularly women, are being empowered to learn and take control of an important source of their family's well being. Soil fertility is beginning to improve. The critical problem of insufficient water in the dry



season has begun to be addressed. Produce was produced for both family consumption and in a number of cases for sale in the local market.

The principle vegetables harvested in the dry season from

November to April were: beets,

Woman & girl in Casa Blanca harvest beets and turnips. radishes, onions, spinach, carrots, Swiss chard, sweet peppers, tomatoes, cucumbers, turnips, local herbs, etc.

The principle vegetables harvested in the rainy season from May to October were: cauliflower, broccoli, cabbage, cilantro, lettuce, spinach, parsley, cucumbers, celery, squashes, broad beans, cilantro, radishes, amaranth, etc.

We thank all our present donors and invite new donors to be a part of this vital work. Help us sustain and expand this project.



Donations can be made by writing a cheque payable to the Niagara Warehouse of Hope - Attention: Project Harvest 46 Broadway Ave., St. Catharines, Ontario, Canada, L2M 1M4 (Tel. 905-646-7237) Contact - Project Harvest / Fundraising: Herman Plas (Tel. 519-443-8839) E-Mail: hplas@bfree.on.ca