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10/2/99

Cooperative Housing Foundation



Cooperative Housing Foundation Lebanon

Rural Economic Development Initiative (REDI)
Supported by the United States Agency for International Development

PROJECTS APPROVED TO DATE BY CLUSTER

10/1/97 to 09/30/99

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Cooperative Housing Foundation (CHF) - Lebanon Reconstruction and Expanded Economic Opportunity

Table of Contents

Enclosed in this booklet are descriptions of projects initiated by the CHF/CD Rural Economic Development Initiative program. The information presented is organized by the 6 clusters and 58 villages in which the projects take place.

After reviewing the booklet, if you would like to provide any feedback on our work or would like information on how to contribute to any CHF project worldwide, please feel free to contact us at cdl@cyberia.net.lb. Thank you.

- 1. Program Summary & Projects with Multi-Cluster Impact**
- 2. Nationwide/Multi-Cluster - Profile, Project Descriptions & Pictures**
- 3. Fakiha Cluster - Profile, Project Descriptions & Pictures**
- 4. Beino Cluster - Profile, Project Descriptions & Pictures**
- 5. Qobayat Cluster - Profile, Project Descriptions & Pictures**
- 6. S. Hermel Cluster - Profile, Project Descriptions & Pictures**
- 7. N. Hermel Cluster - Profile, Project Descriptions & Pictures**
- 8. Zgharta Cluster - Profile, Project Descriptions & Pictures**

The CHF REDI Program w/ Multi-Cluster Impact

Introduction

Problem The national socio-economic condition of Lebanon still staggers from the ravages of a long civil war Northern Lebanon and Northern Bekaa Valley especially, homes of tens of thousands of families, remain both isolated and economically depressed since families in these areas face limited economic opportunities due to remote markets and high transport costs In addition, given the extended lack of a united government structure, numerous physical and social hardships have been endured due to the lack of equitable, sound environmental management practices

Goal & Objectives To address the variety of challenges that stem from this problem, CHF, in cooperation with the local NGO - Cooperation for Development (CD), has established a vibrant, economically sustainable development program which improves rural family incomes and makes it possible for displaced people to return to cleaner, safer and more prosperous environments

CHF works toward this goal by focusing on the following objectives

- #1 Increasing the productivity of farmland through improved irrigation,
- #2 Improving the physical & social infrastructure of 58 communities in 6 regions,
- #3 Improving each communities' environment through preservation, development and awareness,
- #4 Expanding economic opportunities for both men and women-owned businesses through improved production and/or increased income,
- #5 Improving the capacity and willingness of rural communities to work together when planning, financing and implementing projects that address common needs

The Cluster Committee Approach CHF fulfills its objectives by identifying and managing projects through a cluster committee approach This approach groups a specific number of villages into a target cluster Each village within the cluster elects a committee made up of informal and formal leaders that CHF works with to identify projects During project development, both CHF and CD provide adequate technical assistance to the committee and, when applicable, community dispute resolution techniques to ensure each project's success However, it is the committee that is ultimately responsible for project management Therefore, both local capacity is built and a large degree of sustainability is obtained, since local residents choose, manage and help to finance "their own" projects

Model Impact The CHF/CD program attempts to successfully implement model projects that 1) have lasting impact on the area as a whole, and 2) local government officials can identify as cost effective and well managed, so as to duplicate them on a national scale When a village committee identifies a project that is inefficient due to scale, the application is passed on to a committee overseeing work for the cluster as a whole – located typically in a central, somewhat larger city This way each surrounding village can access and benefit from the project

Projects Status Report

Nation Wide or Multi-Cluster

Project Title Environment Management Workshops
Project code 99-MC001-001

Problem A lack of awareness and know-how with respect to managing and improving both community and personal environments has taken a toll on many rural Lebanese villages. Local residents and leaders are unaware of steps that they can take in order to proactively prioritize and address problems affecting the well being of their surroundings.

Solution CHF has designed a series of 10 three day workshops targeting both village leaders and teachers in each of our six clusters. Four of the workshops center on the leaders' ability to develop region-wide and village specific environment plans. As part of the process, the workshops will 1) create an overview and awareness of problems, 2) discuss village concerns 3) prioritize problems 4) develop 3 to 5 year workplans with a list of projects that can be developed and 5) develop cohesive proposals as means of soliciting support and implementing the projects. Additionally six workshops will focus on teachers' ability to develop and deliver adequate environmental teaching units based on the Ministry of Education's set environmental curriculum.

Impact 234 will be trained 112 leaders who will define environment programs with lasting impact on their communities and 122 teachers who can use their units over and over again in school.

Beneficiaries 234 People Trained

Baseline Little to no understanding of basic environmental awareness or intervention techniques

Studies The trainings will draw from CHF's environmental awareness survey detailing problems specific to each of the clusters.

Status In-progress

Contract signed 05/25/1999
Start date 05/25/1999
End date-target 04/01/2000
End date-realized

CHF share \$ 44,750 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		\$10,250 00
	UNDP	\$10 000 00	

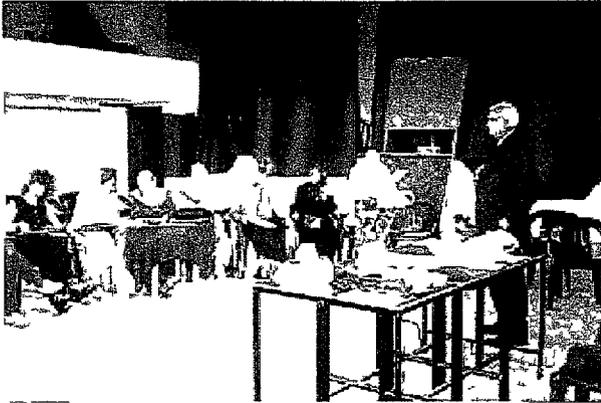
Remarks CHF has received approval from the Ministry of Education to conduct the trainings and will utilize their pre-defined environment curriculum. There will be two days worth of follow-up work for each leader section and seven days for each teaching. Community in-kind equals 234 local residents donating 3 days of time. UNDP is contributing \$4,750 for transport reimbursement for participants and \$5,250 toward the contracting of the workshops. Leader participants are from CHF's committees, municipalities and local NGOs. Teacher participants are from public schools at both the primary and intermediate levels.

Participants 0 Over 100 different committees, schools, municipalities and NGOs will have representation.

USAID Indicators 1.1.3a 234 Clients Access to basic training in marketable or other skills
1.1.4f 1 Activities Awareness campaigns and workshops
CHF2 4 Person monthes PM employment generated
CHF3 87 Person months PM training delivered

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Nation Wide or Multi-Cluster Project Environment Management Workshops



Ladies in Hermel attend the workshop conducted by Masterplan



The Hermel workshop included approximately 50% women



Fakiha participants take attentive notes when starting to design new projects



Braunstorming sessions help develop new approaches



Halba - Leadership Workshop Participants pose for picture



Remarkable women participation in the Hermel Teachers Workshop

Projects Status Report

Nation Wide or Multi-Cluster

Project Title **Municipal Budgeting and Training**
Project code 99-MC001-002

Problem Lebanon has been struggling with the beginning stages of decentralization since municipal elections took place for the first time in 30 years, (fall of '98) Given this process and the countries' current financial crisis there remains a tremendous need for equipping the region's leaders with the physical and theoretical tools required for adequate financial planning, management and control

Solution In an effort to facilitate the sustained development of Lebanon's democratically elected local governments CHF has chosen to work with the State University of New York (SUNY) to assist 16 of 19 municipalities in which we work CHF will do this by supplying a package of technical equipment, software and training The equipment will include a computer UPS printer copier and fax machine Training will focus on 1) introduction to basic computer use, 2) finance-management software, and 3) financial budgeting/control

Impact 16 municipalities will have improved, more transparent management practices

Beneficiaries 200 000 plus people in 17 municipaliti

Baseline Although staffs have varying levels of experience and knowledge, there remains little to no equipment and an inadequate knowledge of financial manage systems

Studies CHF conducted assessments of each municipality to determine their abilities and desire to articipate

Status In-progress

Contract signed 07/28/1999

Start date 08/15/1999

End date-target 09/30/1999

End date-realized

CHF share \$ 111 580 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community Municipalities	\$1,000 00	\$5 760 00

Remarks As overall coordinators SUNY will be responsible for the logistics involved in selecting equipment vendors They will also subcontract with the local NGO that manages CHF's Mobile Computer Center project (see clusterwide Fakiha, project #1 description) This low cost alternative not only provides additional revenue for the NGO but promotes development cooperation Municipal in-cash contribution is for small start-up costs and transport to training sessions The municipal in-kind contribution was for training 30 staff members for 36 hours at \$4 an hour Additionally SUNY will finance two sets of equipment (\$15,940) for two of CHF's municipalities as well as contributing \$ 4 400 for the local NGO training in Labweh and Hermel This is not recorded as in-kind since they are considered federal funds In terms of procurement originally MDS and SETs were the first two choices but were excluded since the majority of equipment was not American made

Participants 17 Municipalities of Baalbeck, Halbatah, Aarsal, Labweh, El Qasr, Jabouleh, Younin, El Qaa El Borg, Bezbina, Halba, Beino, Deir Nbouh, Racaine, Kfar Hata and Kfar Zeina & SUNY

USAID Indicators 1 1 3a 30 Clients Access to basic training in marketable or other skills

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Nation Wide or Multi-Cluster Project Municipal Budgeting and Training



Municipality members/staff were trained 36 hours, during
3 weeks on computers



Even women, among municipality members/staff, participated
in the training session

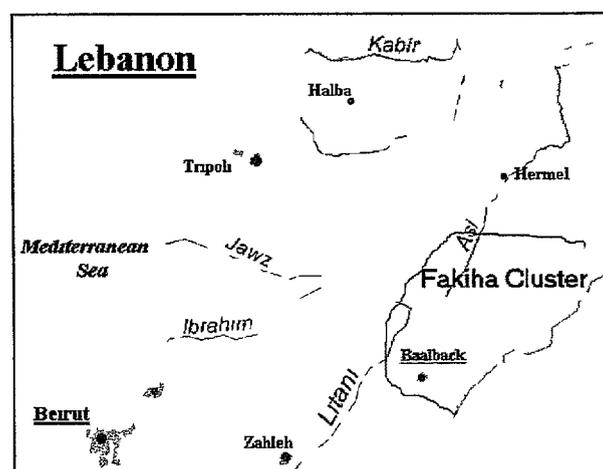
Cooperative Housing Foundation - Lebanon

Rural Economic Development Program (REDI)

Village Profile for - Cluster Wide, Fakiha
Region - BEKAA
Cluster - FAKIHA

Village Information

Population	148,100
Altitude	900 Mtrs
Distance from Beirut	150 Kms
Number of Basic Schools	40
Number of Secondary Schools	15
Number of Hospitals	8
Number of Dispensaries	15
Nearest School	N/A
Nearest Hospital	N/A



Village Description The Fakiha cluster is a group of 13 villages and one city in the North - Central Beeka Valley. A region of significant agricultural and tourist importance, much of this region's economic stability relies on Baalbeck, a 4,000 year old city with significant ancient ruins and various distribution points for produce and commerce. Although potable water is not as big a problem as in other CHF clusters, resolving water distribution disputes and rebuilding farm irrigation networks destroyed during the war are. Other priorities identified by the cluster as a whole include deforestation, solid and liquid waste management, a lack of general environmental awareness and expanded economic opportunity. Given the fact that both the Qubayat and Fakiha clusters have the most residents per household in the areas where CHF works, there is also an opportunity to develop a home improvement and/or small business lending program. In addition, given the rejuvenated agricultural base, CHF projects are helping to promote the resettling of land, taking the burden off of Beirut's growing urban sprawl. Much of the population and municipal services stated above are located in Baalbeck. Thus, many of the smaller villages have remained neglected to date. Given this fact, CHF is working closely with both cluster wide and village specific community leaders to develop a coherent, well-integrated program.

Projects Status Report

Cluster Wide, Fakiha

Project Title Mobile Computer Training Center
Project code 98-C001-001

Problem There is limited access to any type of basic computer literacy programs outside of Beirut and when found, it typically is too expensive for most families in the region. Additionally, practical applications of computers remains a foreign concept since families in the area have had little to no exposure to modern technology.

Solution CHF has equipped a local NGO, "Welfare Association for Development" (WAD) with 11 computers, printers and tables to be used as a mobile computer training center for three groups of villages (known as clusters) in Bekaa.

Impact To date (9/30/99), 306 people have been trained. The project is ongoing and self-sufficient since many participants pay \$35 to attend the two-month course. Total revenue generated by the local NGO managing the project at 6/15/99 was \$5,148 from training fees and \$4,000 from a contract to train municipality leaders.

Beneficiaries 306 Trained to date

Baseline Zero trained.

Studies N/A.

Status Completed

Contract signed 06/26/1998
Start date 08/01/1998
End date-target 08/10/1998
End date-realized 09/01/1998

CHF share \$ 12,074.00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community	\$3,783.00	
	UNDP	\$12,600.00	
	WAD		\$11,070.00

Remarks The UNDP contribution was for the salaries of trainers and the community's in-kind contribution for other expense, such as transportation of trainers, stationary, volunteers and other. USAID was on hand to witness the first graduation of 76 students in Hermel. The second stage of training was recently completed in El Qaa for 55 students and the third stage in Aarsal for 40 students. The fourth stage started July 7th for 105 children, (in conjunction with a local summer camp) in Fakiha. Additionally, the State University of New York recently subcontracted the NGO to train 30 municipal members (\$4,400 - starting 8/15) as part of the SUNY/CHF municipal budgeting program.

Participants 3 WAD, a local contractor and the local committee

USAID Indicators 1.1.3a 306 Clients Access to basic training in marketable or other skills
 CHF2 10 Person months PM employment generated CHF3 65 Person months PM training delivered

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Cluster Wide, Fakiha
Project Mobile Computer Training Center



Some theory and concepts before the practical training



Hands-on application introduce the foreign concepts

Projects Status Report

Cluster Wide, Fakiha

Project Title **Regional (Re)Forestation**
Project code 99-C001-002

Problem Once known for its beautiful forests Lebanon is nearing complete deforestation given the effects of war and multiple years of environmental degradation

Solution CHF eight village committees the UNDP and scores of local groups are planting approximately 40 000 trees and shrubs in the public areas of 35 plus villages CHF is directly contributing to and assisting local committees manage the implementation in 8 villages under the REDI umbrella To date, CHF has planted 4,000 trees in Baalbeck, 1 050 in Labweh, 1000 in Harbatah and 350 in Toufiquh and 1070 in Arsal and is in the process of rebuilding five small parks in Labweh

Impact Eight villages in three of REDI's clusters will have an improved, greener environment to live in In addition, there is a significant impact on the entire region's ability to plan and work together (Scores of local NGO's, schools, government agencies committees and others volunteered time toward the project) Also, it is expected that the trees will have a positive impact on the area's water tables as well

Beneficiaries 148,100 Population of Cluster

Baseline There are few to no trees in the entire region, and no trees in the areas where CHF is planting

Studies N/A

Status Completed

Contract signed 02/15/1999
Start date 02/15/1999
End date-target 03/15/1999
End date-realized 05/25/1999

CHF share \$ 8 800 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		\$5 820 00
	UNDP	\$32,300 00	

Remarks The committees and the UN care for and take responsibility for the protection of the trees Local contributions came from the committees, the Lebanese Army and other international sources all of whom donated time for planting and caring for the trees Quotes received for the trees were not village specific Quotes for parks were received individually
UNDP took care of purchasing tools, renting machinery and irrigation for the first 2 months

Participants 12 Local committees/contractors L Army, Municipalities Schools NGO's and the UNDP

USAID Indicators 1 1 1c 20 Hectares Hectares of land currently not cultivated brought back into production
1 1 2g 10000 Families Access to other improved social infrastructure1 1 4 3 Villages Villages implementing environmental management plans1 1 4a 1 Activities Restoration of green cover
CHF2 15 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Cluster Wide, Fakiha Project Regional (Re)Forestation



Community members responsible for project planning and implementation help inaugurate the work



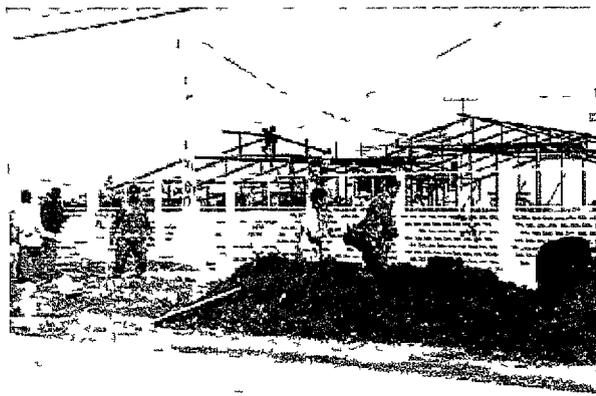
Volunteers helping to plant 40,000+ trees came from the Army and scores of other local organizations



The campaign in action - planting trees in Halbatah



Site of a square to be built by CHF The utility shed will be moved to a better location



Three projects in one - a regional wholesale center, a village retail center and the cluster tree planting campaign



CHF project director, Mr Talal Haj Dibb, plants the second tree after the local committee with the VP of the municipality

Projects Status Report

Cluster Wide, Fakiha

Project Title Potable Water Network Construction
Project code 99-C001-003

Problem There is currently no potable water network in the villages of Halbatah, Zabboud, Kharaayeb and Sbouba Not only does the lack of water create social hardships, but environment health and economic problems as well - since there is unauthorized well digging and residents are forced to purchase trucked-in water that is often contaminated

Solution CHF UNDP and Creative Associates are joining forces to coordinate on this project which will result in a water network for the four villages above The network will consist of 16 kilometers of pipe, 3 reservoirs and a pumping station for a well dug by the Ministry of Hydraulic Resources and Electricity (MOHRE)

Impact 4,000 residents will have cleaner, safer water

Beneficiaries 4 000 Population of the four village

Baseline A well was recently dug by the MOHRE in preparation for the project Other than that no potable water infrastructure existed

Studies A study was conducted by MOHRE to determine the feasibility of both the hydraulic lines and proper implementation

Status In-progress

Contract signed 07/30/1999
Start date 08/20/1999
End date-target 04/30/2000
End date-realized

CHF share \$ 100,599 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		\$5 000 00
	UNDP	\$156,000 00	
	MOHRE	\$32,000 00	

Remarks CHF will build a pumping station at the site of the well for all villages and a common reservoir for all the villages in addition to 380 meters pipeline In terms of contributions Creative Associates will build a reservoir for the second village (not recorded since these are USAID funds) and UNDP for two others UNDP will also oversee the laying of 12 KM of pipe within the villages MOHRE dug the well and provided consultation for the studies/plans The community provided the land free of charge Also, particularly noteworthy, is the fact that each village committee selected 2 members to sit on a clusterwide committee to oversee all aspects of construction This falls within USAID's goal of civic participation, cooperation and community dispute resolution

Participants 10 MOHRE, UNDP, Creative Associates, 2 local contractors and 5 committees (4 village committees and a cluster-wide - see remarks above)

USAID Indicators 1 1 2a 1000 Families Access to improved potable water supply
1 1 4 4 Villages Villages implementing environmental management plans
1 1 4e 1 Activities Potable water treatment
CHF1 1 Villages Number of community disputes resolved or solved.
CHF2 35 Person monthes PM employment generated

Projects Status Report

Arsal

Project Title Feeder Road Construction, 6kms
Project code 97-65130-001

Problem Farmers having difficulty transporting cherry production due to a lack of access to farm land, resulting in reduced production efficiencies and income

Solution A 6 KM feeder road was constructed to access 800 hectares of cultivatable land

Impact Approximately 650 hectares of land will be newly cultivated and 150 hectares of land will be improved, providing increased revenue for farmers Travel time to the fields will be reduced by 70% which will reduce production costs

Beneficiaries 35 000 Population of Village

Baseline 150 hectares cultivated prior to project implementation, accessed by an ill-defined tractor path

Studies Greenplan (an NGO associated with the Ministry of Agriculture) and the UNDP conducted a cost feasibility study

Status Completed

Contract signed 11/22/1997
Start date 11/23/1997
End date-target 02/10/1998
End date-realized 04/02/1999

CHF share \$ 12,000 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community	\$4,000 00	

Remarks The CHF share of work is completed on the first road. The committee's contribution was for labor and the leasing of a truck. The UNDP has agreed to complete the second road in the near future as a separate project

Participants 4 Local committee, Greenplan, UNDP and a local contractor

USAID Indicators 1 1 1b 800 Hectares Number of hectares accessed1 1 2f 100 Families Families using new or protected access roads1 1 3e 50 Chents Families or businesses w improved production1 1 4 1 Villages Villages implementing environmental management plans1 1 4a 1 Activities Restoration of green cover
 CHF1 1 Villages Number of community disputes resolved or sloved.
 CHF2 5 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Aرسال
Project Feeder Road Construction, 6kms



Access to farm land prior to project implementation



Local contractors during excavation



Accessing farm land decreases costs and increases income

Projects Status Report

Arsal

Project Title Public School Construction
Project code 99-65130-002

Problem Approximately 300 students a year go without public education due to the lack of facilities This helps to contribute to the region's 30% illiteracy rate Additionally not one school in the village/city of 30,000 is handicap accessible

Solution CHF and the local residents will build a 1,000 sq meter school in order to accomodate approximately 500 students per year @ the primary and complementary levels The structure has been design with the possibility of adding one floor in the future The school is also designed to accommodate the village's 250+ handicapped children

Impact Approximately 500 students per year and the region's physically disabled children will benefit from an improved/new educational facility

Beneficiaries 30,000 Population of Village/Town

Baseline Currently, there is not enough room to school all of the children in the village Many go without basic education

Studies Architectural, civil/surveying works and electro-mechanical designs were all drafted and approved by the Ministry of Education

Status In-progress

Contract signed 07/30/1999
Start date 07/31/1999
End date-target 12/31/1999
End date-realized

CHF share \$ 130,065 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community	\$20,000 00	\$40,000 00
	UNDP	\$35 000 00	

Remarks The Ministry of Education will own the building and cover the communities' additional expences e g more teachers, electricity, materials etc , etc A parent committee has also been formed to support the school during construction and after it has been opened The municipality and local residents will pay \$20K toward the construction They will also make an in-kind contribution in the form of a land donation The UNDP will also contribute toward part of the construction cost

Participants 4 Ministry of Education, local municipality, local committee and a local contractor

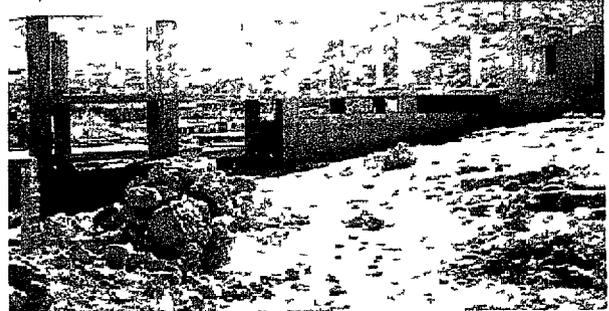
USAID Indicators 1 1 2d 500 Families Access to improved schools
CHF1 1 Villages Number of community disputes resolved or sloved.
CHF2 30 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

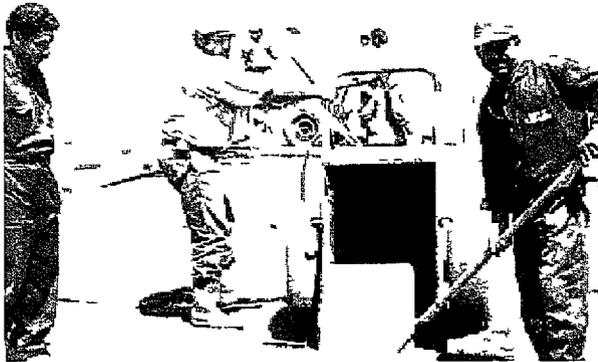
Village Arsal Project Public School Construction



Existing School structure executed by the local committee



Existing building and playground before the CHF work started



Construction workers pouring the concrete on the roof of school



The workers are preparing the foundation for the second section of the Arsal School

Projects Status Report

Baalbeck

Project Title **Repair and Equip the Vegetable Market**
Project code 98-65177-001

Problem One of the region's main food distribution centers was considered both environmentally unsound and not secure. Health problems occurred given the dirty conditions, a lack of toilet facilities, no packaging and limited, adequate storage.

Solution CHF worked to upgrade the environment and other general conditions of the wholesale market which allows local businesses to exhibit farm produce under cover and handle food in a sanitized environment. Work included waterproofing the roof, painting, asphaltting and fence construction.

Impact 28 wholesale businesses with improved food handling facilities and greater market demand increased income to the municipality to both better manage the market and conduct additional activities. 5,000 area residents access a healthier market place, the municipality is becoming more proactive in organizing and developing successful projects.

Beneficiaries 50,000 Population of City

Baseline 28 wholesale businesses currently renting from the municipality; extremely poor solid waste and food handling management,

Studies Detailed architectural and engineering designs drawn, a national committee was formed to conduct and evaluate a national solicitation process.

Status Completed

Contract signed 09/28/1998
Start date 09/28/1998
End date-target 12/20/1998
End date-realized 05/15/1999

CHF share \$ 29 924 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		\$276 800 00
	UNDP	\$15,000 00	

Remarks This project is integrated with the current Baalbeck retail market project. The estimated cost of the market location of \$276 800 is considered the municipalities' contribution. CHF was not originally satisfied with the contractor's work regarding the fence construction and painting. Thus the contractor was forced to redo the work at its own expense. Recently the expected share of both, Municipality of Baalbeck and the UNDP is to provide the market with the water and build two rooms outside the fence. An additional project for a processing facility is under negotiation for the area as well.

Participants 2 Municipality of Baalbeck and a national contractor

USAID Indicators 1 1 2g 5000 Families Access to other improved social infrastructure 1 1 3c 28 Chents Clients accessing improved market place conditions 1 1 4 1 Villages Villages implementing environmental management plans 1 1 4g 1 Activities Health + food/water quality improvement CHF 2 15 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Baalbeck Project Repair and Equip the Vegetable Market



Whole sale market in Baalbeck before upgrading



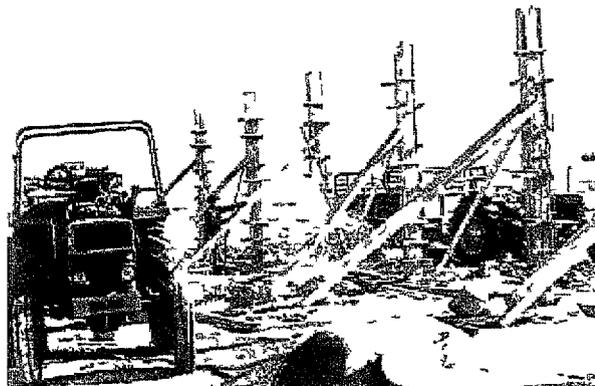
Toilets in Baalbeck market before repair



Painting Baalbeck market



Filling the area around Baalbeck market



During fence construction in Baalbeck market



The whole sale market after painting

Projects Status Report

Baalbeck

Project Title Retail Market Construction
Project code 98-65177-002

Problem Retailers sell vegetables in environmentally unsound, squalor conditions in the equivalent of two meter high shacks Lack of security remains a problem as does the lack of adequate toilet facilities

Solution CHF is working with the municipality to build an adequate retailing center for local businessmen and women to address each of the problems above In addition to the retail market/building a security wall and asphalted parking facilities are being built on sight

Impact 26 local retailers/farmers will have improved marketplace to sell goods through The municipality will be able to provide improved services and generate income And all area residents will have access to more environmentally sound food handling facilities The municipality is becoming more "proactive" in organizing and developing a successful project

Beneficiaries 50 000 Population of City

Baseline 26 retailers work in environmentally unsound conditions servicing approximately 5 000 customers None of the retailers currently pay rent for the space

Studies Detailed architectural and engineering designs drawn, a national committee was formed to conduct and evaluate a national solicitation process

Status CHF Portion Completed

Contract signed 11/12/1998

Start date 11/19/1998

End date-target 12/10/1998

End date-realized 04/14/1999

CHF share \$ 14 795 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community Municipalities	\$13 000 00	

Remarks This project is integrated with the Baalbeck wholesale market project A project for a processing facility is under negotiation for the area as well, thus enabling the site to have integrated production, wholesale and retail facilities Additionally, CHF is working with the municipality on their long term plan of moving vegetable retailers to this site so the current overcrowded market in town can be used to support the growing tourist business with small craft entrepreneurs The municipality's contribution was for asphaltting the area The municipality and the UNDP might increase their contribution by providing stands (steel stande) for the retailers However problems arose (destruction of some of the works) Currently, UNDP and Baalbeck municipality are working together to re-repair the works done by CHF

Participants 3 Municipality, UNDP and a national contractor

USAID Indicators 1 1 3c 26 Clients Clients accessing improved market place conditions 1 1 4g 1 Activities Health + food/water quality improvement CHF 2 15 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

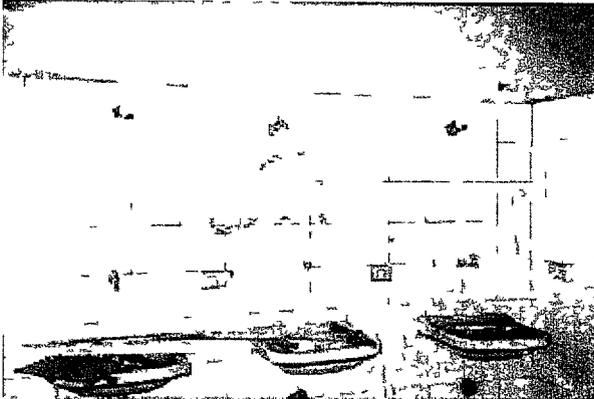
Village Baalbeck Project Retail Market Construction



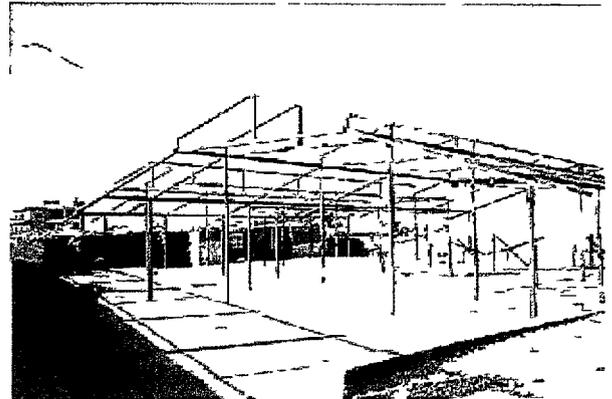
The old retail market before construction



Retail market before construction



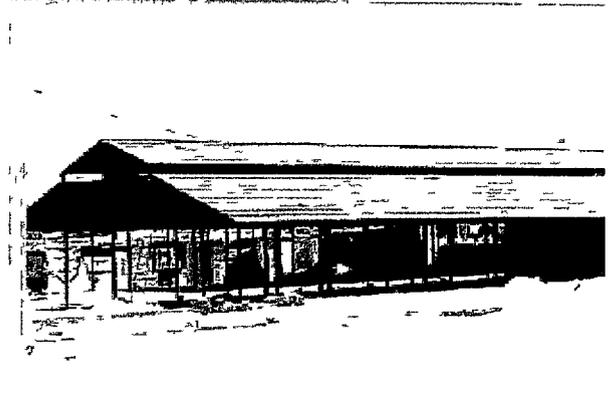
Washrooms for food handlers before the work



The retail market's base floor and frame



A retailer and son before the improved facilities



The nearly completed market cover

Projects Status Report

Baalbeck

Project Title Homepage for Tourists
Project code 99-65177-003

Problem Baalbeck's developing economic infrastructure completely depends on various agricultural sectors found throughout Bekaa valley. The city as well as the region as a whole, desperately needs new sources of income to help support its population and provide incentives for people to return from Beirut. A unique opportunity exists to promote tourist based businesses since Baalbeck is the home of Lebanon's most prominent Roman ruins, including the Temple of Jupiter dating back 3 000 years.

Solution CHF is supporting the Universities Graduate Baalbeck Association UGBA (a local NGO) and the city of Baalbeck by providing the equipment and accessories needed to develop and operate a first class WEB Site on the internet. The site will promote the city, advertise local businesses and link to other regional web centers of attraction. The NGO previously spent two years collecting artifacts and historical documents in preparation for the site, including legal letters from the "Emperor of Germany" historical descriptions of 16th century Western explorers and reconstruction sketches drawn by the Lebanese Ministry of Tourism, just to name a few.

Impact This project will promote the Roman ruins over the internet and generate interest for tourists to leave Beirut and visit Baalbeck, thus having a positive impact on local businesses.

Beneficiaries 70,000 Population of Baalbeck City

Baseline No such services are present for the Baalbeck City

Studies A variety of historical documents, studies, photos and other key points of interest were donated to the managing NGO.

Status In-progress

Contract signed 05/19/1999

Start date 05/19/1999

End date-target 12/31/1999

End date-realized

CHF share \$ 17 500 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		
	UNDP	\$13 000 00	
	UGBA	\$1,472 00	\$21 000 00

Remarks CHF's in-kind estimate is relatively low since it is nearly impossible to calculate the value of the century old documents/artifacts. The in-kind estimate provided represents 2 years of work by the two doctors from Baalbeck who have spearheaded the effort. CHF's contribution is for web development and equipment. The UNDP in-cash contribution is for operations and maintenance.

Participants 2 Local NGO (UGBA) & UNDP

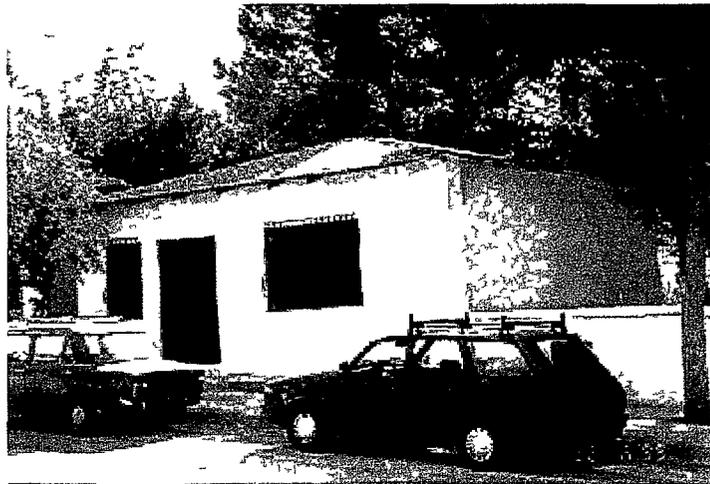
USAID Indicators 1 1 3b 25 Clients Clients accessing new technologies
CHF2 5 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Baalbeck Project Homepage for Tourists



Work begins on renovating the Baalbeck tourist center



A local NGO will contract w/ the municipality
to provide tourist information

Projects Status Report

Harbata

Project Title Potable Water Treatment
Project code 99-65128-001

Problem Clean, adequate drinking water has become scarce in Lebanon given a variety of environmental problems In Harbata after two people became sick from the water a recent test was conducted which showed that the village's main potable drinking water source had dangerously high solid particles Upon inspection, CHF found a six inch sludge-like calcium deposit on the bottom of the reservoir that stores the communities' drinking water

Solution CHF will install a water filtration system for the pipeline running from the well to the village's reservoir tank. The system includes a manual bar screen, chlorine injection system feeder pump filter control panel and relevant pipes

Impact Approximately 330 families will have improved drinking water

Beneficiaries 4,000 Population of the Village

Baseline High solid particle content, particularly magnesium and calcium

Studies Water test at American University of Beirut and by Watermaster Inc

Status Completed

Contract signed 05/05/1999

Start date 05/14/1999

End date-target 06/15/1999

End date-realized 06/10/1999

CHF share \$ 9 300 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community	\$500 00	\$1 000 00
	UNDP	\$4 500 00	

Remarks Recently, due to the problem, residents have been purchasing water via a truck from a source in Labweh Thus, there should be a positive economic benefit from the project as well The community's contribution in the project was the cost of constructing the room for the equipment installation The UNDP's contribution was for the cost of a pump

Participants 2 Local committee and a contractor

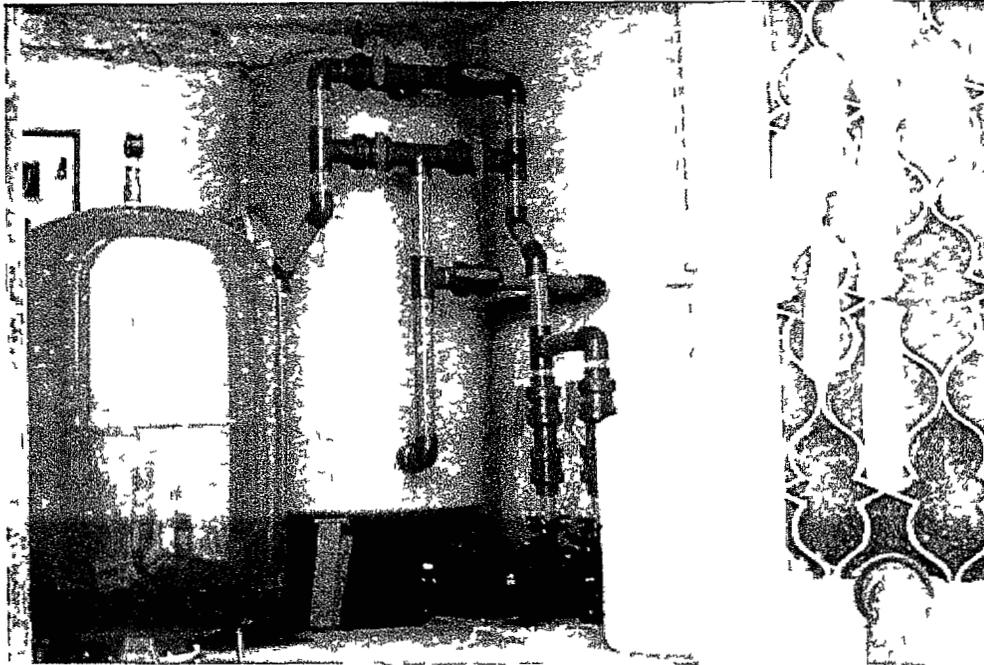
USAID Indicators 1 1 2a 330 Families Access to improved potable water supply
1 1 4 1 Villages Villages implementing environmental management plans1 1 4e 1 Activities
Potable water treatmentCHF2 2 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Harbata Project Potable Water Treatment



Before instalation, a 6 inch calcium deposit had formed at the bottom of the communities' reservoir



The local village donated the pre-existing room and contributed in its renovation

Projects Status Report

Harbata

Project Title Public School Expansion
Project code 99-65128-002

Problem The current school only has the capacity to serve approximately 100 students although they agreed to take on 30 more in the upcoming year (FY2000) Even so, the local school was forced to deny access to 70 additional students who wanted to enroll all in an area where the illiteracy rate exceeds 20%

Solution CHF and the local committee are constructing 4 additional classrooms to facilitate an increased enrollment Additionally CHF will provide funds for a small kitchen and toilet facilities for teachers The local school will contribute by leveling a predefined area and turning it into a playground for the children

Impact Approximately 200 students a year will impact from the improved facilities

Beneficiaries 4 000 Population of Village

Baseline The school can hold about 100 students before the project started

Studies Structural designs were drafted and approved for the new rooms

Status In-progress

Contract signed 08/25/1999

Start date 08/25/1999

End date-target 01/01/2000

End date-realized

CHF share \$ 30 687 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community	\$4,000 00	\$100 000 00

Remarks The quotes received for the project included the \$4,000 set aside for the playground (the school's in-cash contribution) They did not include an additional \$4,500 in equipment and material which CHF will receive quotes for in the near future The school also contributed on an in-kind basis by donating the existing structure and land, together valued at over \$100,000

Participants 3 Local school committee and contractor

USAID Indicators 1 1 2d 200 Families Access to improved schools
 CHF2 16 Person monthes PM employment generated

Projects Status Report

Jabbouleh

Project Title Orphanage Water Well Equipment
Project code 98-65125-001

Problem The well equipment of a local orphanage was out of order threatening their crop The orphanage relies on the money raised and food grown to support its operations

Solution CHF replaced an old burned out water pump with adequate accessories cables and panels

Impact 100 orphans 50 nuns/teachers and 550 students

Beneficiaries 1 500 Population of Village

Baseline The years's harvest was in jeopardy

Studies N/A

Status Completed

Contract signed 06/05/1998
Start date 06/06/1998
End date-target 06/07/1998
End date-realized 06/07/1998

CHF share \$ 2 750 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community Orphanage	\$275 00	

Remarks A new project has been submitted for an orphanage to replace its sewage pit with a small treatment plant/facility The current pit is contaminating ground water The new system will provide water for improved crop irrigation as well The orphanage contributed in constructing a concrete platform for the installation of the equipment and accessories

Participants 1 The orphanage

USAID Indicators 1 1 1d 6 Hectares Number of hectares of land with upgraded production through improved irrigation
 1 1 2g 100 Families Access to other improved social infrastructure
 1 1 4 1 Villages Villages implementing environmental management plans
 1 1 4e 1 Activities Potable water treatment
 CHF 2 2 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Jabbouleh Project Orphanage Water Well Equipment



Examining the water well's site



Work begins!

Projects Status Report

Jabbouleh

Project Title Irrigation Canal Repair, 600 meters
Project code 98-65125-002

Problem Area residents were having difficulty providing water to their land due to the previous destruction of the irrigation/canal system during the war

Solution 600 meters of reinforced concrete irrigation canals were built/renovated.

Impact Improved irrigation and income for 50 families

Beneficiaries 1,500 Population of Village

Baseline 50 hectares previously cultivated

Studies Specifications set by the Ministry of Hydraulic Resources and Electricity (MOHRE)

Status Completed

Contract signed 09/04/1998
Start date 09/08/1998
End date-target 10/30/1998
End date-realized 09/30/1998

CHF share \$ 16,900 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		\$3,000 00
	UNDP	\$8 000 00	

Remarks The community's in-kind contribution was for part of the labor while the UNDP contributed cash to pay for part of the contracted work.

Participants 4 Local committee, local contractor, MOHRE and UNDP

USAID Indicators 1 1 1d 130 Hectares Number of hectares of land with upgraded production through improved irrigation
 1 1 3e 50 Chents Families or businesses w improved production
 1 1 4a 1 Activities Restoration of green cover
 CHF2 4 Person monthes PM employment generated
 CHF1 1 Villages Number of community disputes resoved or sloved.

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Jabbouleh
Project Irrigation Canal Repair, 600 meters



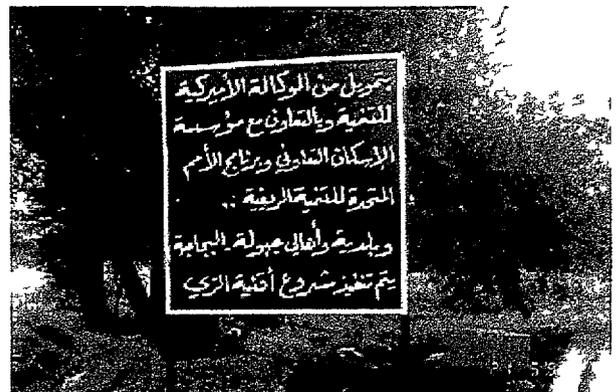
CHF's field coordinator inspects the work as the water begins to flow



Upon completion there will be an increase in cultivation



Construction of a 600 meter irrigation canal



"This project was donated by USAID, CHF & UNDP "

Projects Status Report

Jabbouleh

Project Title Irrigation Canal Construction, 1820 mtrs
Project code 99-65125-003

Problem Currently there is only enough water flow to irrigate 80 Hectares of crop production on a rotating cycle i e 80 Hectares one year and 80 alternate Hectares the next The water canals that exist are earth canals that are both inefficient and open to contamination

Solution CHF and the local water committe are constructing five concrete water canals to more effectively distribute water to area farmers The canals will stem from the main water supply coming from Labweh

Impact 160 Hectares will have improved crop production 80 currently cultivated every other year leaving 80 more not cultivated 150 families will have increased income, approximately 90 direct farm families and 60 people/employees who make their living off the land

Beneficiaries 1 500 Population of Village

Baseline 80 Hectares cultivated per year on a rotating basis

Studies A study was conducted mapping out each of the 11 irrigation canals in the region and developing a long term plan for their improvement This project is the first step in the plan

Status Completed

Contract signed 02/18/1999
Start date 02/18/1999
End date-target 03/18/1999
End date-realized 04/08/1999

CHF share \$ 30,960 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		\$5,460 00
	UNDP	\$20,000 00	

Remarks The community's share includes cleaning and preparing the site for construction The UNDP's contribution was for part of the labor

Participants 3 local committe, UNDP and local contractor

USAID Indicators 1 1 1a 80 Hectares Number of hectares of land with upgraded production through new irrigation
 1 1 3e 25 Clients Families or businesses w improved production
 1 1 4a 1 Activities Restoration of green cover
 CHF2 10 Person monthes PM employment generated
 CHF1 1 Villages Number of community disputes resoved or sloved

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Jabbouleh Project Irrigation Canal Construction, 1820 mtrs



Excavation begins



The base is put down



Preparing for the pour All work is done by local contractors



Designs are approved by the Ministry of Hydrolic Resources



Construction workers, CHF staff and committee members review the work



A different section of the canal Water flows!!!!
Soon all of Jabbouleh will have irrigation

Projects Status Report

Jabbouleh

Project Title Wastewater Treatment Plant
Project code 99-65125-004

Problem The sewage from a local orphanage currently flows into an untreated cesspool and contaminates the village's water table which is only 8 meters below the surface. Additionally, from the cesspool, the raw sewage seeps into a nearby river which is accessed by the entire region for crop irrigation and production. Thus, the region's food production remains at risk as well.

Solution CHF and the local committee is constructing a wastewater treatment plant for the local orphanage/school and 8 surrounding houses. The plant will be owned and operated by the orphanage and handle up to 80 cubic meters of influent per day. Given the region's scarcity of water, the treated effluent will be used by farmers for increased crop irrigation/production.

Impact The region as a whole, which currently accesses the river for irrigation (given untreated discharge), will have improved food quality. Additionally, the quality of the region's water table will increase significantly.

Beneficiaries 1,500 Population of Village

Baseline Currently untreated, 200 biochemical oxygen demand

Studies Preassessment study of potential bidders, study of baseline water quality, sustainability study of the plant's operation, and the test run of an evaluation matrix developed to procure services and select winning bids.

Status In-progress

Contract signed 08/27/1999

Start date 08/27/1999

End date-target 11/30/1999

End date-realized

CHF share \$ 39 900 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community	\$9 000 00	\$25,000 00

Remarks Given the use of one international and two local consultants, CHF has developed a cost-effective process for quickly and efficiently analyzing a community's characteristics (e.g. ability to sustain the plant, set targets, etc.) procuring services and evaluating options. This should be useful given CHF's plans to construct a total of 3 plants. In terms of contributions, the local orphanage will donate \$9,000 (in-cash) toward the plant's construction and \$25,000 (in-kind) in land. The orphanage will be responsible for maintenance and will sign an agreement with the procured contractor for periodic services. CHF chose the second lowest capital construction bid based on technical recommendations from a local expert at the American University, as well as the cost of operating the plant after it is running. In addition to CHF's contribution of \$34,900 for the treatment plant, CHF is contributing \$5,000 to hook-up 8 houses surrounding the school/orphanage.

Participants 3 Local committee, local orphanage and a local contractor

USAID Indicators
1 1 2b 6000 Families Access to new / improved solid waste and sewage systems
1 1 1d 10 Hectares Number of hectares of land with upgraded production through improved irrigation
1 1 4c 1 Activities Wastewater treatment CHF2 14 Person monthes PM employment generated

Projects Status Report

Labweh

Project Title Potable Water for a Public School
Project code 98-65122-001

Problem The regional potable water network by-passed the school by 200 meters, thus, making it difficult for the school to provide clean water and adequate toilet facilities

Solution CHF installed a potable water line (200 meters) for the school to access clean, safe drinking water

Impact 200 students have cleaner water and the school is able to save money since it does not have to purchase the water

Beneficiaries 7 000 Population of Village

Baseline 200 students without access to safe drinking water at the school

Studies N/A.

Status Completed

Contract signed 05/13/1998
Start date 05/20/1998
End date-target 05/30/1998
End date-realized 06/30/1998

CHF share \$ 455 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		
	Local School	\$240 00	

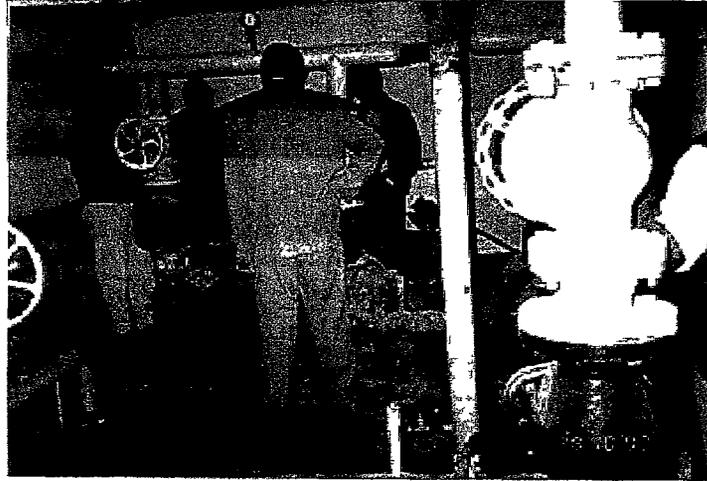
Remarks The school originally was going to contribute \$545 but found volunteers to do the majority of the work. However, the school contributed cash for labor and materials

Participants 3 Local committee local contractor and the local school

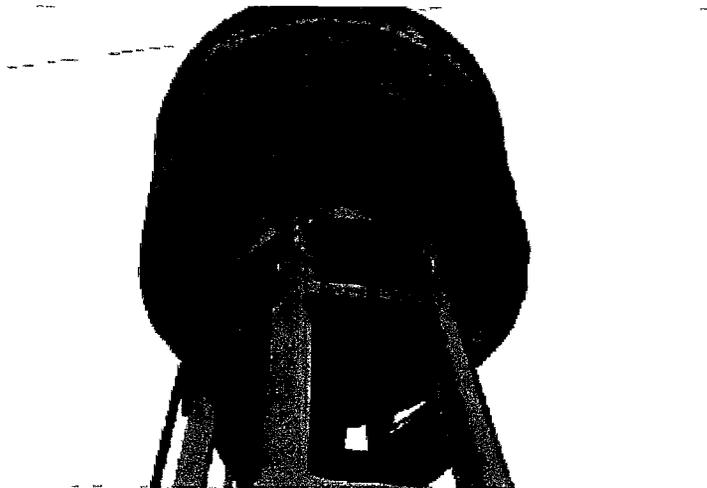
USAID Indicators 1 1 2a 200 Families Access to improved potable water supply
 1 1 4e 1 Activities Potable water treatment CHF 2 6 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Labweh Project Potable Water for a Public School



Examining the burned out pump



Water is taken from the reserve to the farm land

Projects Status Report

Labweh

Project Title Environment Camp for Fakiha Cluster
Project code 98-65122-002

Problem Lack of environmental awareness creates a plethora of problems and lost opportunities for the villagers to improve their own lives

Solution CHF assisted the UNDP in organizing part of a workcamp teaching environmental awareness and civic participation to village members municipal leaders, NGOs and other key figures Participants were oriented toward community needs and participation, as well as volunteering for their respective municipalities

Impact 60 people with increased environmental awareness More than 10 organizations and municipalities were able to meet, share ideas and identify projects that address common needs

Beneficiaries 7,000 Population of Village

Baseline N/A.

Studies N/A

Status Completed

Contract signed 08/15/1998
Start date 08/31/1998
End date-target 09/09/1998
End date-realized 09/16/1998

CHF share \$ 1,200 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		
	UNDP	\$27,570 00	\$23,000 00

Remarks Originally CHF and the UNDP organized the camp to be co-funded on 50 - 50 basis However CHF kept its contribution to a minimum given the fact that the REDI Environment Component was not approved at the time by USAID Thus, UNDP paid the direct costs, labor and equipment

Participants 10 CHF, AUB LAU, UNDP, various NGOs and regional municipalities

USAID Indicators 1 1 3a 60 Clients Access to basic training in marketable or other skills
 1 1 4f 1 Activities Awareness campaigns and workshopsCHF3 15 Person months PM training delivered

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village: Labweh
Project Environment Camp for Fakiha Cluster



Students generate awareness through hands on application



CHF village committee members attend opening ceremonies

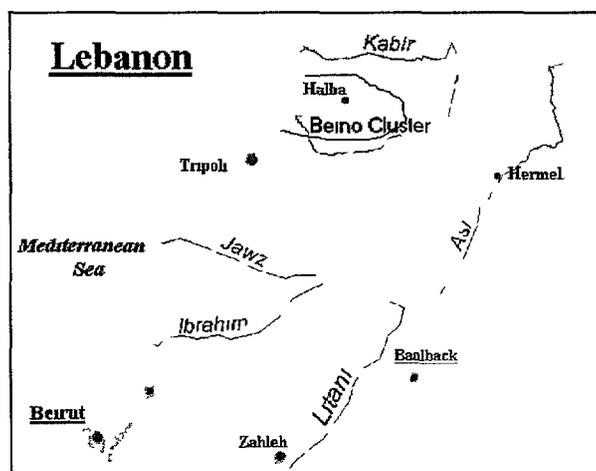
Cooperative Housing Foundation - Lebanon

Rural Economic Development Program (REDI)

Village Profile for - Cluster Wide, Beino
 Region - NORTH LEBANON
 Cluster - BEINO

Village Information

Population	27,500
Altitude	500 Mtrs
Distance from Beirut	180 Kms
Number of Basic Schools	10
Number of Secondary Schools	5
Number of Hospitals	4
Number of Dispensaries	1
Nearest School	N/A
Nearest Hospital	N/A



Village Description The six villages that make up CHF's Beino Cluster are part of the larger northern Lebanese Area of Joumeh. Each are nestled in beautiful, green landscaped mountains between 600 and 900 meters above sea level and thus have abundant water resources. The resources though are typically polluted given a lack of sewage systems. In addition, the lack of an economic infrastructure helps to contribute to the environment's mismanagement since many residents supplement their income with open air slaughtering and other small business practices that are detrimental to a healthy surrounding. As in all of Lebanon, the lack of a solid waste management system also contributes to this problem. Of particular note in Beino is the multi-cultural and multi-religious makeup of its villages. Whereas most villages in Lebanon are predominantly comprised of one faith, the Beino villages are actually mixed, with many different faiths participating in socio-political activities at all levels. This fact, as well as the cluster's relatively high literacy rate, helps distinguish the development projects in the region since village committees are typically more proactive and less time is needed for dispute resolution. It also makes the design of cluster wide projects (often based in Halba, the cluster's main economic center) more congruent and flexible.

Projects Status Report

Bezbina

Project Title **Running and Equipping Cold Storage**
Project code 98-65172-001

Problem Lack of adequate storage facilities to maintain food in a sanitized, economically efficient way. Lack of storage also has a negative effect on farm family incomes since they are forced to sell produce at harvest time when prices are lowest.

Solution Three area cooperatives (Bezbina, Rahbe & Akkar) constructed a cold storage facility. CHF provided operational start-up support by supplying cold storage boxes and a forklift.

Impact 500 farm families were able to improve income due to better prices. Area residents will have access to a more sanitized food handling facility.

Beneficiaries 4,000 Population of Village

Baseline No such facility was in operation.

Studies N/A

Status Completed

Contract signed 07/28/1998
Start date 08/01/1998
End date-target 08/15/1998
End date-realized 08/10/1998 (Boxes were delivered to project holder)

CHF share \$ 21,500.00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community	\$4,380.00	\$259,700.00
	GNUC	\$13,000.00	
	MOSA	\$6,500.00	

Remarks The community contributed the existing facility as well as purchasing additional boxes for storage. GNUC contributed toward general operating cost and the MOSA contributed by purchasing a forklift. A separate project will train area coop members in facility management. GNUC started using the facility: 100 tons, 12,000 boxes in the first room (potatoes); in the second room there will be around another 12,000 boxes (peaches).

Participants 4 Three coops and the GNUC

USAID Indicators 1.1.2g 500 Families Access to other improved social infrastructure
1.1.3c 100 Clients Clients accessing improved market place conditions
1.1.4 1 Villages Villages implementing environmental management plans
1.1.4g 1 Activities Health + food/water quality improvement
CHF2 1 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Bezbina Project Running and Equipping Cold Storage



Area residents load produce when prices are high!



500 farm families are expected to benefit from the project



Once again, USAID, CHF and the local committee get credit
for a job well done

Projects Status Report

Bezbina

Project Title Training on Cold Storage Management
Project code 98-65172-002

Problem A lack of knowledge existed among local coops on sustainable management techniques of cold storage facilities for food handling/storage

Solution CHF financed a training program for a cold storage management team formed from three area agricultural cooperatives. The training was conducted by Rene Mouawad Foundation (RMF) as its staff members are experts in managing a similar project in Zgharta

Impact 29 people received food handling skills

Beneficiaries 4 000 Population of Village

Baseline No one previously trained.

Studies N/A.

Status Completed

Contract signed 08/08/1998
Start date 09/21/1998
End date-target 12/31/1998
End date-realized 10/30/1998

CHF share \$ 4 800 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		
	RMF		\$2,200 00

Remarks The estimated cost of CHF share was \$5 000 and realized was \$4 800. Given RMF's expertise and the fact that they are co-funding the project, CHF decided to move ahead with the RMF team as the lead trainers. They, RMF, contributed by discounting the cost of the project.

Participants 5 Rene Mouawad Foundation (RMF), in addition to those in the first Bezbina project

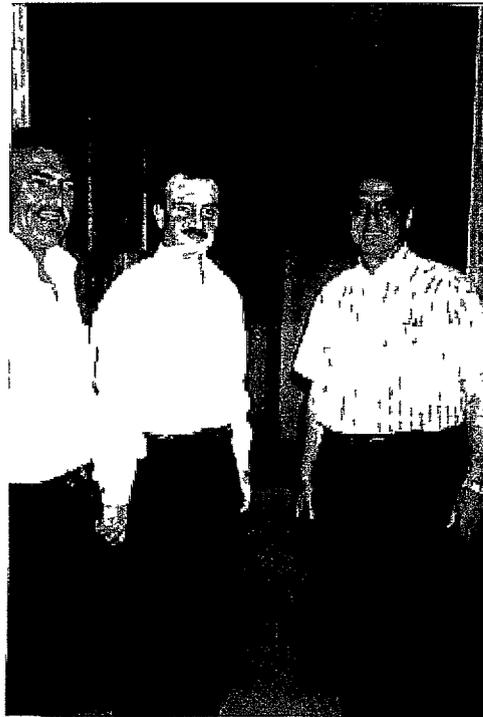
USAID Indicators 1 1 3a 29 Chents Access to basic training in marketable or other skills
 1 1 4f 1 Activities Awareness campaigns and workshops CHF3 1 Person months PM training delivered

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Bezbina Project Training on Cold Storage Management



Three regional coops distributing to national markets benefited by the cold storage initiative



CHF's Director reviews the up and running facility with the President of the National Union of Cooperatives (GNUC)

Projects Status Report

Bezbina

Project Title **Equiping a New Cold Storage Room**
Project code 99-65172-003

Problem The main agricultural crops in Bezbina Rahbe and Akkar Al-Atika are potatos apples and peers Given a lack of adequate storage space farmers are forced to sell their products at harvest time when prices are the lowest thus reducing income

Solution CHF will provide insollation for a cold storage facilities' thurd (additional) room as well as a new cooling unit This facility will assist farmers sell their produce at higher prices when supply is more limited, thus increasing family incomes

Impact The same area residents as the first two Bezbina projects will be impacted CHF estimates that the additional space will allow the cooperative to include 25 new clients who can benefit from the increased storage space

Beneficiaries 4 000 Population of villages involve

Baseline A cold storage facility previously existed with 2 equipped rooms and 12 000 boxes which is not enough to meet the region's demand

Studies A consultant studied the technical offers and presented an evaluation report upon which CHF made its procurement decisions

Status Completed

Contract signed 07/20/1999
Start date 08/03/1999
End date-target 10/03/1999
End date-realized 09/28/1999

CHF share \$ 31 798 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community	\$7 000 00	
	UNDP	\$16 000 00	

Remarks This builds upon two other successful Bezbina cold storage projects It is a seperate project given CHF's development approach which calls for smaller trust building projects at first before larger more expensive projects are undertaken The local contribution is for painting the exterior of the building The UNDP will also equip the room with thousands of storage boxes Now the number of the 3 COOPs is 860 members who can benefit from this facility

Participants 3 UNDP Local Contarctor and local committee

USAID Indicators 1 1 3c 860 Clients Clients accessing improved market place conditionsCHF2 4 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Bezbina Project Equipping a New Cold Storage Room



The installation of the insulator on the walls of the new cold storage room

Projects Status Report

El Borj

Project Title Internal Access Road Construction
Project code 99-65174-001

Problem Located in the Northern mountains this village is often neglected by municipalities when providing services and selecting infrastructure development projects More specifically about twenty families did not have access to farm land and the main road in the village increasing both production efforts and costs

Solution CHF and the local village committee opened a 400 meter concrete access road that is approximately 3 meters wide A retaining wall was also constructed

Impact Approximately 20 families access the main road and farm land with tractors solid waste collection etc etc

Beneficiaries 5 000 Population of Village

Baseline About 35 meters of road previously existed However the road was too narrow for vehicles to utilize Additionally, about 5 hectares were previously cultivated.

Studies N/A

Status Completed

Contract signed 02/01/1999
Start date 02/01/1999
End date-target 03/01/1999
End date-realized 03/05/1999

CHF share \$ 6 500 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		\$3 600 00

Remarks This project is the first in the village and the committee's top choice The in-kind contribution is for labor and cost of land.

Participants 2 Local committee and a local contractor

USAID Indicators 1 1 1b 10 Hectares Number of hectares accessed 1 1 2f 20 Families Families using new or protected access roads 1 1 3e 5 Efficiencies Families or businesses w improved production 1 1 4 1 Villages Villages implementing environmental management plans 1 1 4a 1 Activities Restoration of green cover
 CHF2 5 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

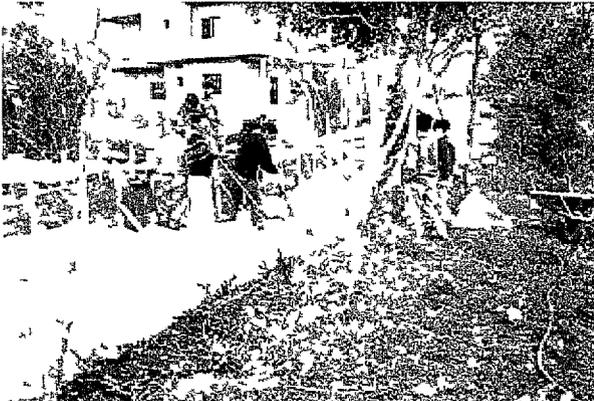
Village El Borj Project Internal Access Road Construction



The previous road accessing land stops here



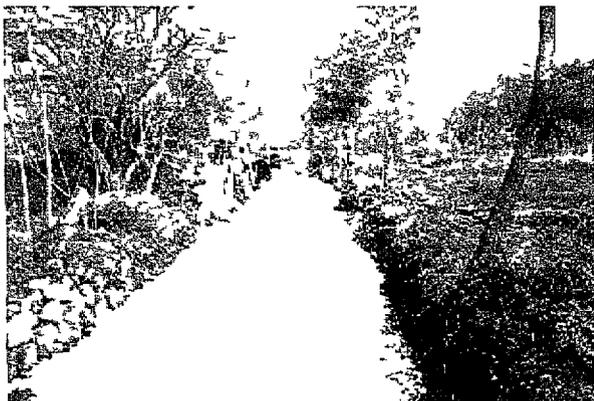
Land that will be cultivated by local residents



To cut costs, local residents help the local contractor move earth as an in-kind contribution



A farmer gave up part of his land to widen the road and build the wall



The base is nearly complete



The completed concrete access road

Projects Status Report

Halba

Project Title Slaughter House Repair
Project code 97-65170-001

Problem Butchers were slaughtering animals on the side of roads resulting in contaminated public areas

Solution CHF repaired a slaughter house in order to facilitate handling of carcasses in an environmentally sound and sanitized way

Impact 2 400 families have access to improved meat processing facilities The town reduced the negative environmental concerns of outdoor slaughtering (since the opening, it has forbidden open air slaughtering on the streets) Since the opening of the facility, the municipality has also generated about \$1,000 a month in revenue

Beneficiaries 12,000 Population of Village

Baseline Approximately 90 butchers working on the streets of Halba

Studies N/A.

Status Completed

Contract signed 01/19/1998
Start date 02/05/1998
End date-target 04/05/1998
End date-realized 04/22/1998

CHF share \$ 13,000 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community Governors	\$8 000 00	

Remarks CHF is evaluating the potential project to install a blood collection and treatment system with the Ministry of Environment The local Governor contributed by paying for part of the labor

Participants 2 Local committee and Governor of Halba

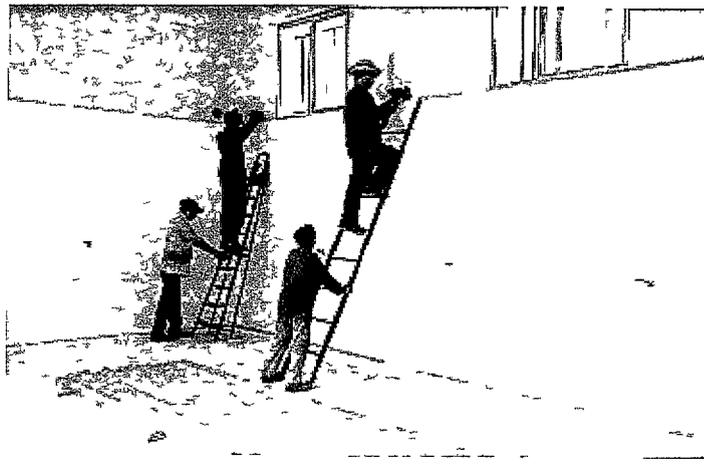
USAID Indicators 1 1 2g 2000 Families Access to other improved social infrastructure1 1 3c 90 Clients Clients accessing improved market place conditions1 1 4 1 Villages Villages implementing environmental management plans1 1 4g 1 Activities Health + food/water quality improvementCHF2 10 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village. Halba
Project Slaughter House Repair



Work begins as businesses slaughter in the streets



Renovation nearing completion

Projects Status Report

Halba

Project Title **Equiping a Slaughter House**
Project code 98-65170-002

Problem Butchers were slaughtering animals on the sides of roads which resulted in contaminated public areas given the lack of an adequate processing facility

Solution CHF installed equipments and tools for a slaughterhouse in order to facilitate handling of carcasses in an environmentally sound and sanitized way

Impact 2 400 families have access to improved meat processing facilities The town will reduce the negative environmental concerns of outdoor slaughtering since it has now forbidden open air slaughtering on the streets Additionally, the municipality has also been able to generate about \$1 000 a month in revenue

Beneficiaries 12 000 Population of Village

Baseline Approximately 19 butchers working on the streets of Halba

Studies N/A

Status Completed

Contract signed 07/20/1998
Start date 07/22/1998
End date-target 08/10/1998
End date-realized 08/10/1998

CHF share \$ 2 875 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community	\$505 00	
	Municipalities	\$325 00	

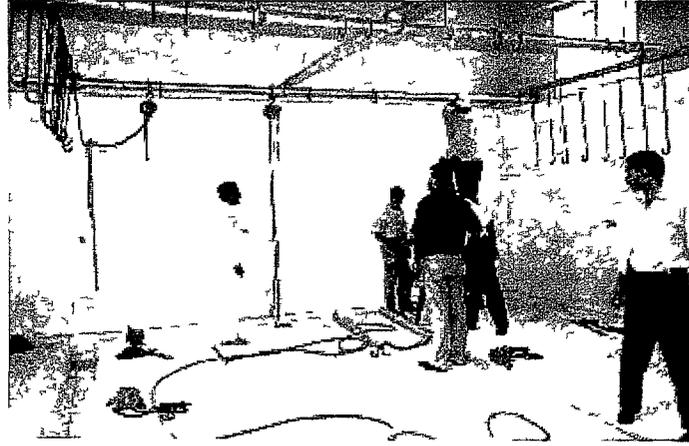
Remarks This project builds upon the first Halba project that concentrated on the repair of the processing facility The local community and the municipality contributed part of the labor

Participants 2 Local committee and Governor of Halba

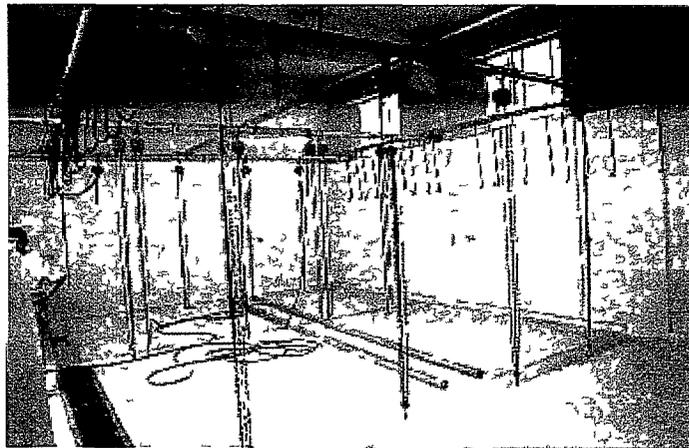
USAID Indicators 1 1 4g 1 Activities Health + food/water quality improvement CHF2 1 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Halba Project. Equipping a Slaughter House



Installing needed equipment to move butchers off the street



The completed work

Projects Status Report

Halba

Project Title **Drainage Canal Repair & Construction**
Project code 99-65170-003

Problem Uncontrolled rain water has been eroding the main highway through town, disposing significant amounts of debris in the center of town, flooding the market and various houses. Due to the war adequate records were lost that mapped the previous no longer working system.

Solution CHF and the Municipality will dig up and repair the existing drainage system and install new pipes when necessary. CHF anticipates that the work will cover 472 meters.

Impact General improvement in the infrastructure of the region will have a positive economic and health effect.

Beneficiaries 12 000 Population of Village

Baseline One previous drainage system no longer functioning

Studies N/A

Status Completed

Contract signed 01/15/1999
Start date 01/15/1999
End date-target 02/15/1999
End date-realized 05/15/1999

CHF share \$ 8,000 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		
	Municipalities	\$8,410 00	

Remarks CHF has had a great deal of success working with the leaders of this village. The project which affects the entire cluster given Halba's location, builds upon two prior projects in the village. The local municipality also contributed to offset labor costs.

Participants 2 Municipality of Halba and a local contractor

USAID Indicators I 1 2g 2000 Families Access to other improved social infrastructure I 1 4 1 Villages Villages implementing environmental management plans I 1 4b 1 Activities Environmental protection practices CHF 2 7 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Halba Project: Drainage Canal Repair & Construction



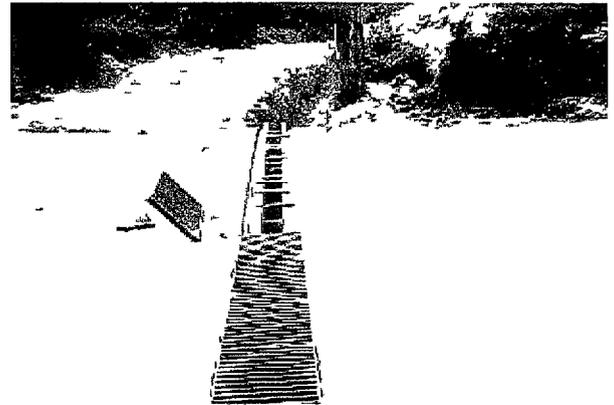
Excavation work coming down the mountain road



The road drainage system in-progress



Uncontrolled water washed out resident basements and business further down the hill



The project will help control road washout in the winter



The completed project on the main road (economic link) to Northern Lebanon

Projects Status Report

Memnaa

Project Title Potable & Irrigation Network
Project code 98-65171-001

Problem People previously displaced during the war having returned, dug a well for potable water and farm irrigation, but did not have the resources to complete the pipeline and canals

Solution CHF installed 1,500 meters of pipes to transport water from the provided well

Impact 3 000 people previously displaced benefit by accessing potable water

Beneficiaries 3 000 Population of Village

Baseline One unfinished water project

Studies N/A.

Status Completed

Contract signed 01/19/1998
Start date 02/08/1998
End date-target 03/08/1998
End date-realized 04/25/1998

CHF share \$ 5 000 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		\$3 000 00

Remarks This project fits into CHF's target of providing incentives for people to return to their villages The villagers in-kind contribution was in the form of labor

Participants 2 Local committee and a local contractor

USAID Indicators 1 1 1a 100 Hectares Number of hectares of land with upgraded production through new irrigation
1 1 2a 400 Families Access to improved potable water supply
1 1 1c 50 Hectares Hectares of land currently not cultivated brought back into production
1 1 3e 15 Clients Families or businesses w improved production
1 1 4 1 Villages Villages implementing environmental management plans
1 1 4e 1 Activities Potable water treatment
CHF2 5 Person monthes PM employment generated
CHF1 1 Villages Number of community disputes resoved or sloved

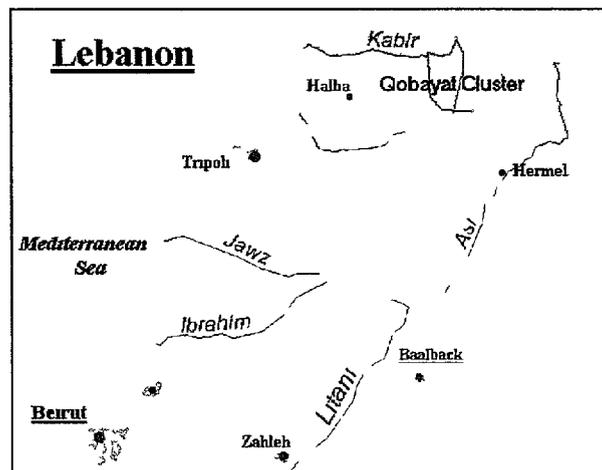
Cooperative Housing Foundation - Lebanon

Rural Economic Development Program (REDI)

Village Profile for - Cluster Wide, Qobayat
 Region - NORTH LEBANON
 Cluster - QOBAYAT

Village Information

Population	23,250
Altitude	1,000 Mtrs
Distance from Beirut	220 Kms
Number of Basic Schools	8
Number of Secondary Schools	2
Number of Hospitals	0
Number of Dispensaries	0
Nearest School	N/A
Nearest Hospital	35 Kms



Village Description This CHF cluster consists of 13 villages that make up the majority of the Wadi Khaled area, the most remote section (about 165 kilometers) of Northern Lebanon that is located on the Syrian border. The 20,000 or so people that reside in this valley are a symbol of neglect, and are not only some of the poorest in Lebanon, but maybe the Middle East itself. Close to 30% of the houses are not linked to any formal source of electricity, more than 40% are not linked to a water network and even more lack any kind of phone service. The main source of water for both drinking and irrigation comes from the Southern Great River, a meter wide stream that originates in Wadi Khaled and is open to contamination as it flows toward the Mediterranean. The residents of Qobayat used to live on trade with Syria, but this activity has been prevented. To compound the economic effect, area residents have also been restricted from official employment with the Lebanese government. The reason is that, since ancestors did not partake in the last official 1932 census for fear of a draft, the population at large was only granted partial Lebanese citizenship and the full right to vote in 1994. Given this, the area has mainly depended on tribalism for local governance, making development work specifically challenging. Since the Wadi Kahled area has been underdeveloped, neglected and marginalized for years, the cluster needs all types of development activities, such as clean water, dispensaries and medical centers, schools, irrigation canals, economic infrastructure facilities, adequate access roads and more. The most critical of these are probably the schools, since the illiteracy rate exceeds 40% in much of the region. In addition, other forms of training and waste water projects are needed since people are unskilled and a recent CHF survey revealed that 30 % of the houses lack toilets.

Projects Status Report

El Mahatah

Project Title Irrigation Canal Project
Project code 98-65157-001

Problem This remote village lost a great deal of water due to the lack of a controlled irrigation system. The water was also more open to contamination and open air solid waste dumping.

Solution The project consisted of building reinforced concrete irrigation canals and a small dam/water reservoir to prevent water loss and better manage scarce water resources. To increase farm production.

Impact Three villages (El Mahatah, Hicheh & Al Awadeh) and approximately 200 families benefit with the improved crop irrigation of approx 80 hectares. This in turn leads to an increase in income.

Beneficiaries 1 000 Population of Village

Baseline 40 hectares of land previously cultivated.

Studies Engineering plans were drawn according to specifications and requirements set by the Ministry of Hydraulic Resources and Electricity (MOHRE).

Status Completed

Contract signed 06/22/1998
Start date 06/30/1998
End date-target 09/30/1998
End date-realized 10/30/1998

CHF share \$ 14,300 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community	\$4 000 00	\$630 00
	Governors	\$6,666 00	

Remarks The Governor of Halba is encouraging the work of CHF in the Akkar area. This was the second project where the Governor contributed an in-cash payment for the contractor's work. As for the community, in-cash and in-kind contributions were for part of the contractor's work and for labor.

Participants 3 Local committee, the Governor of Halba and the local contractor

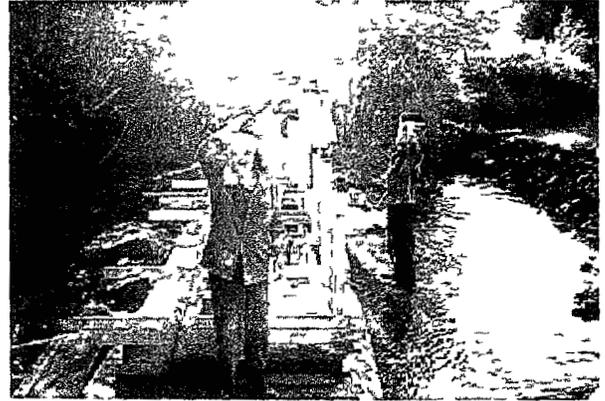
USAID Indicators 1 1 1d 80 Hectares Number of hectares of land with upgraded production through improved irrigation
 1 1 3e 50 Clients Families or businesses w improved production
 1 1 4 1 Villages Villages implementing environmental management plans
 1 1 4a 1 Activities Restoration of green cover
 CHF2 11 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village El Mahatah Project Irrigation Canal Project



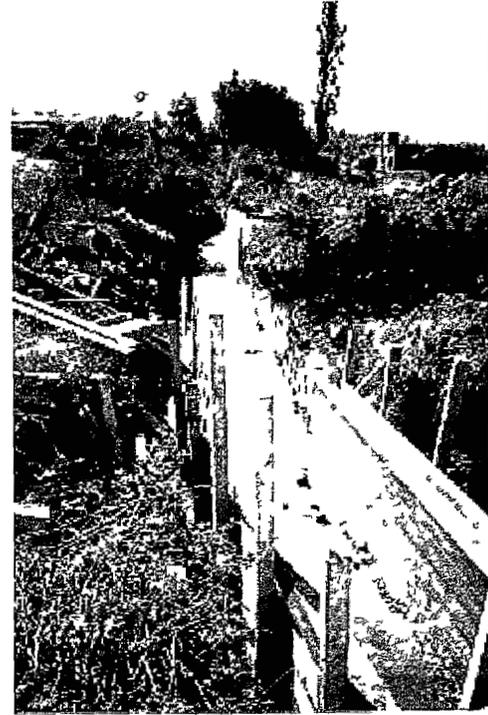
Site prior to dam construction Uncontrolled water is a significant opportunity cost



Local contractors working on the dam's construction



The site for the water canal contaminated with sewage



The canal under construction will provide water for irrigation

Projects Status Report

Hicheh

Project Title Internal Road Upgrading
Project code 98-65154-001

Problem One of the main roads in town used by school children was unfinished and potentially dangerous in wet conditions. Given the lack of an adequate road, trucks had problems accessing houses for garbage collection. Thus waste would be dumped on the side of the road.

Solution CHF provided the materials for the (internal) road's completion.

Impact 25 families received improved solid waste system.

Beneficiaries 2 000 Village Population

Baseline N/A

Studies N/A

Status Completed

Contract signed 02/04/1998
Start date 02/06/1998
End date-target 03/15/1998
End date-realized 03/16/1998

CHF share \$ 4 700 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		\$698 00

Remarks The local contractor discounted the cost of the project as a contribution, and the community provided the labor.

Participants 2 Local committee and local contractor

USAID Indicators 1 1 2f 25 Families Families using new or protected access roads 1 1 4 1 Villages Villages implementing environmental management plans 1 1 4b 1 Activities Environmental protection practices CHF 2 5 Person monthes PM employment generated

**Cooperative Housing Foundation, CHF - Lebanon
REDI Program**

**Village Hicheh
Project Internal Road Upgrading**



The road before completion



Having a gravel road helps reduce transport costs

Projects Status Report

Hicheh

Project Title Internal Road Upgrading
Project code 98-65154-002

Problem One of the main roads in town used by school children was unfinished and potentially dangerous in wet conditions. Given the lack of an adequate road, trucks have problems accessing houses for garbage collection. Thus, there is more incentive to dump waste on the side of the road.

Solution CHF providing the base excavation while a Parliament member is paying for the asphaltting.

Impact 35 families with access to an improved road.

Beneficiaries 2,000 Village Population

Baseline N/A

Studies N/A.

Status Completed

Contract signed 11/05/1998
Start date 11/20/1998
End date-target 11/30/1998
End date-realized 12/05/1998

CHF share \$ 2,500 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		
	Parliament Member	\$13 500 00	

Remarks Builds on the success of the first project. In this project, a parliament member contributed in asphaltting the road.

Participants 2 Local committee and a local contractor

USAID Indicators 1 1 2f 35 Families Families using new or protected access roads 1 1 4b 1 Activities
 Environmental protection practices CHF 2 4 Person monthes PM employment generated

Projects Status Report

Hneider

Project Title Feeder Road Construction
Project code 98-65156-001

Problem Farmers having difficulty accessing their farm land due to inadequate agricultural roads

Solution CHF built a road to access 1 800 hectares of fertile land to encourage the planing of fruit and olive trees

Impact Over 300 families benefit with reduced production costs and improved income Under the direction of CHF the village committee has also learned a significant amount about leveraging resources

Beneficiaries 1 900 Population of Village

Baseline 300 hectares will be brought back into production

Studies N/A

Status Completed

Contract signed 02/04/1998
Start date 02/28/1998
End date-target 04/30/1998
End date-realized 04/15/1998

CHF share \$ 6,500 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community	\$5,500 00	

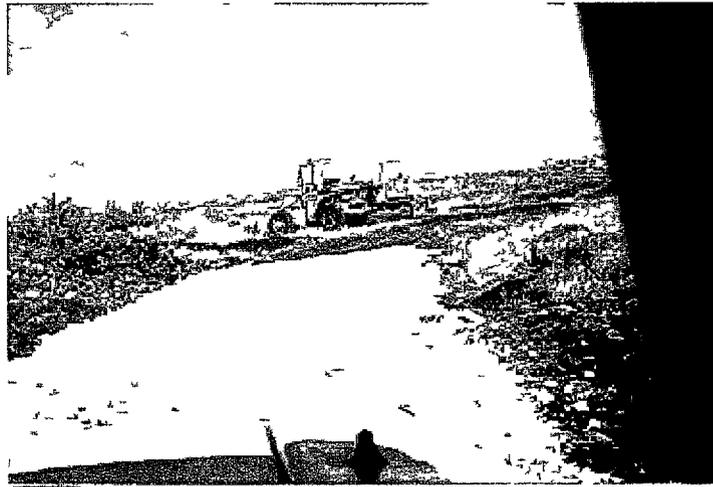
Remarks CHF has learned in its first year that the development of long feeder roads requires a long term management/maintenance plan In the case of Hneider CHF is pursuing opportunities to improve the work, since the village committee chose to construct a longer road with lower quality material rather than a shorter higher quality road. The community contributed in the project by paying part of the contractor's work.

Participants 3 Local committee local contractor and a Parliament Member

USAID Indicators 1 1 1b 1800 Hectares Number of hectares accessed1 1 2f 200 Families Families using new or protected access roads1 1 3e 200 Clients Families or businesses w improved production1 1 4 1 Villages Villages implementing environmental management plans1 1 4a 1 Activitics Restoration of green cover
1 1 1c 50 Hectares Hectares of land currently not cultivated brought back into production
CHF2 6 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

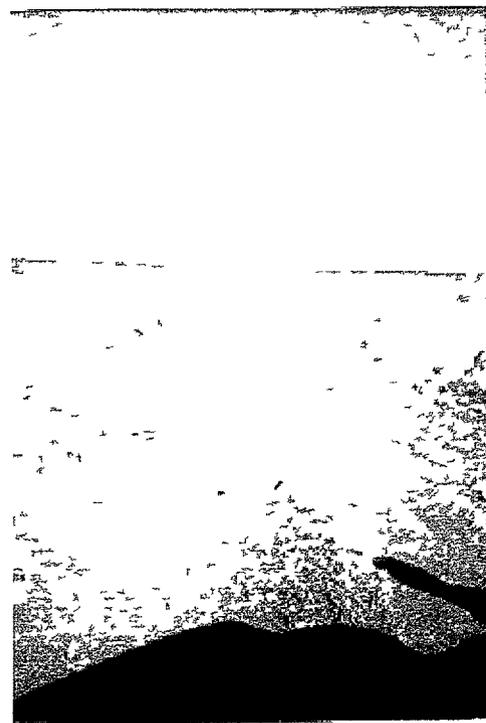
Village Hneider Project Feeder Road Construction



The Hneider feeder road during excavation



The feeder road under excavation



More potential farm land for cultivation

Projects Status Report

Hneider

Project Title Internal Road Upgrading
Project code 98-65156-002

Problem One of the main roads in town used by school children was unfinished and potentially dangerous
 Given lack of an adequate road, trucks had problems accessing houses for garbage collection
 Thus waste would be dumped on the side of the road

Solution CHF is providing the base excavation while a parliament member is paving for the asphaltting

Impact 25 families with access to an improved road

Beneficiaries 1 900 Population of Village

Baseline One poorly constructed dirt road.

Studies N/A.

Status Completed

Contract signed 11/05/1998
Start date 11/16/1998
End date-target 11/25/1998
End date-realized 11/30/1998

CHF share \$ 1 500 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		
	Parliament Member	\$16 500 00	

Remarks Builds on the success of the first Hneider project In addition, CHF assisted the local committee in leveraging significant amounts of resources from local parliament members for village needs The contributions went directly toward the asphaltting of the road.

Participants 3 Local committee a local contractor and a Parliament member

USAID Indicators 1 1 2f 25 Families Families using new or protected access roadsCHF2 4 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Hneider Project Internal Road Asphaltting



Internal road in Hneider before construction



The road during construction with residents looking on



Beneficiaries have a safer way to walk to school

Projects Status Report

Kfarnoun

Project Title Feeder Road, 1 1KM
Project code 98-65152-001

Problem This remote village does not have access to much of its surrounding, uncultivated farm land, making it difficult for people to plant income producing crops and thus resettle

Solution CHF built a 1 1 KM, un-asphalted access road for farmers to plant olive trees and other crops

Impact 40 families utilize the road to increase their crop production and income. In addition, the developing agriculture base motivates people to return to the area from other parts of Lebanon

Beneficiaries 350 Village Population

Baseline Only about 1-5 hectares of the land surrounding the road had been previously cultivated, and these plants were not mature. In addition, only about 25 people lived in the village on a full-time basis

Studies N/A.

Status Completed

Contract signed 11/10/1998
Start date 11/14/1998
End date-target 12/14/1998
End date-realized 12/01/1998

CHF share \$ 5 500 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		\$26,400 00

Remarks The village donated the land for the road as an in-kind contribution @ approximately \$6 a square meter

Participants 2 Local Committee and local contractor

USAID Indicators 1 1 1b 50 Hectares Number of hectares accessed 1 1 3e 40 Clients Families or businesses w improved production 1 1 4 1 Villages Villages implementing environmental management plans 1 1 4a 1 Activities Restoration of green cover
 CHF1 1 Villages Number of community disputes resolved or sloved.
 CHF2 6 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Kfarnoun
Project Feeder Road, 1 1KM



Potential farmland in Kfarnoun before the road 's opening



Local residents contribute time and labor to the project



The completed project w/ farm land to be utilized

Projects Status Report

Mogableh

Project Title Construction of School Rooms
Project code 98-65150-001

Problem The Mogableh school is the only public grade school in the Far North of Lebanon. Approximately 350 students are literally packed into classrooms (about 25 - 35 per 5 by 5 meter classroom)

Solution CHF and the village are constructing 6 additional classrooms and toilet facilities

Impact 450 students per year benefit from the additional space. The space allows room for additional 100 students

Beneficiaries 4,000 Village Population

Baseline 350 students

Studies N/A

Status Completed

Contract signed 09/22/1998
Start date 09/24/1998
End date-target 12/30/1998
End date-realized 04/15/1999

CHF share \$ 16,082.00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		
	Local School	\$9,700.00	

Remarks Due to the lack of space and expense of sending children to private schools (if possible) the village committee chose this as their first priority. Delays in project start-up were attributed to the securing of permission from the Ministry of Education for construction. Given the importance of such a project, the local school paid part of the contractor's work.

Participants 3 school, local contractor and the local committee

USAID Indicators 1.1.2d 450 Families members Access to improved schools
 CHF2 25 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Moqableh Project Construction of School Rooms



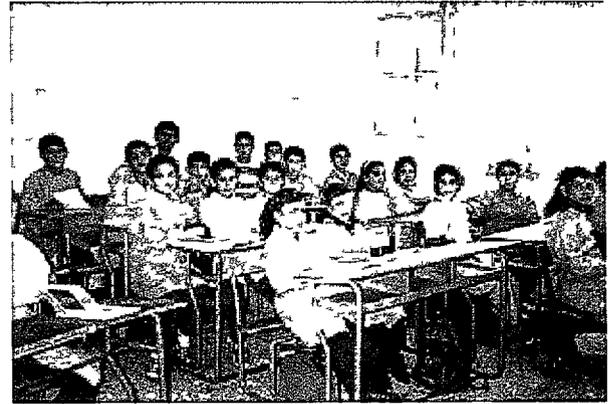
Meeting the school teachers and committee



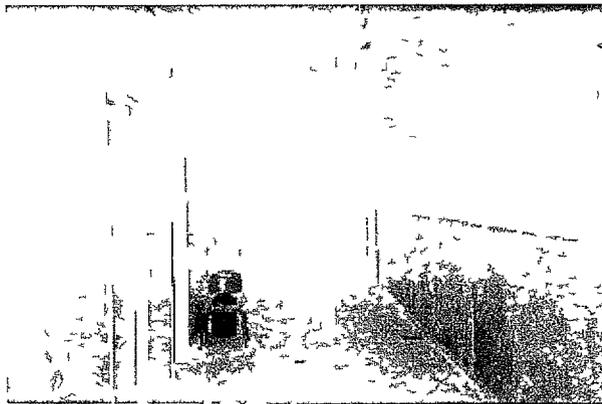
Construction of the Moqableh school's ceiling



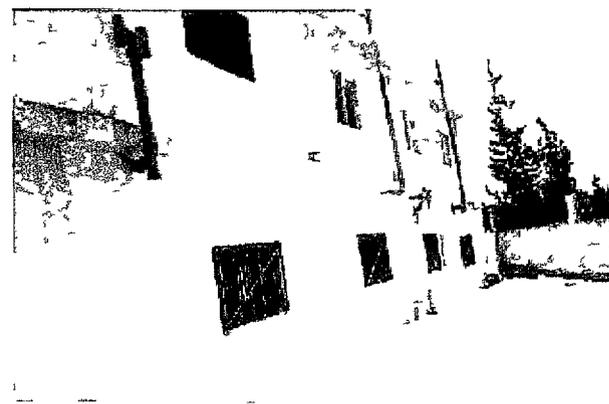
Moqableh school during construction of 6 new classrooms



Students are typically jammed into inadequate rooms, contributing to a 40% illiteracy rate



Illiteracy can reach up to 40 - 50% in the Northern villages



The upper right hand corner is the new portion by CHF/USAID

Projects Status Report

Qenia

Project Title Feeder Road Construction, 1.5 Km
Project code 99-65148-001

Problem Local residents are unable to reach valued farm land via vehicle. Hence, they are forced to revert to primitive means of cultivation.

Solution CHF and the committee will construct a dirt road that accesses approximately 30 hectares of land. The road will enable the use of vehicles for farm production.

Impact Approximately 30 families will benefit with improved (more efficient) means of production.

Beneficiaries 2,500 Village Population

Baseline None of the new land is currently cultivated.

Studies N/A

Status Completed

Contract signed 07/15/1999

Start date 07/19/1999

End date-target 08/19/1999

End date-realized 08/19/1999

CHF share \$ 10,000.00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community	\$4,880.00	\$15,000.00

Remarks The local residents initiated the project by constructing approximately 100 meters themselves. They will also contribute on an in-cash basis toward additional construction costs. In-kind contributions are from a list of 15 farm families, each of whom donated land (6,000 sq meters @ \$2.2 per meter). This project will build upon/extend a previous road constructed w/ assistance from the Canadian Development Fund.

Participants 2 Local committee and local contractor

USAID Indicators 1.1.1b 30 Hectares Number of hectares accessed 1.1.2f 15 Families Families using new or protected access roads 1.1.3e 15 Clients Families or businesses w improved production 1.1.4a 1 Activities Restoration of green cover
CHF2 4 Person monthes PM employment generated 1.1.4 1 Villages Villages implementing environmental management plans

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Qenia Project Feeder Road Construction, 1.5 Km



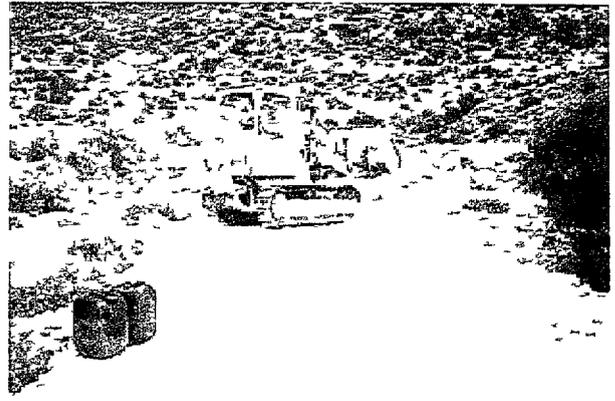
Village members who donated land



Evaluating the road's proposed site



Village work began before funds ran out



The road under construction



The road under construction



The completed road

Projects Status Report

Rojm Hussein

Project Title Public School Repair
Project code 98-65159-001

Problem A school that was recently built did not have proper toilet facilities given the lack of resources

Solution CHF built proper toilet facilities and a water tank that hooks into a waste water network.

Impact 300 students per year benefit

Beneficiaries 1,500 Population of Village

Baseline Two zinc covered toilets

Studies N/A

Status Completed

Contract signed 01/06/1998

Start date 02/01/1998

End date-target 01/28/1998

End date-realized 08/30/1998

CHF share \$ 9,375 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		\$1,500 00

Remarks The school was recently completed by the local community who donated the land and invested in construction costs. The villagers donated both the land and school to the Ministry of Education who will be responsible for maintenance and staffing. They also contributed by doing some of the labor works.

Participants 3 Local school, local contractor and the local committee

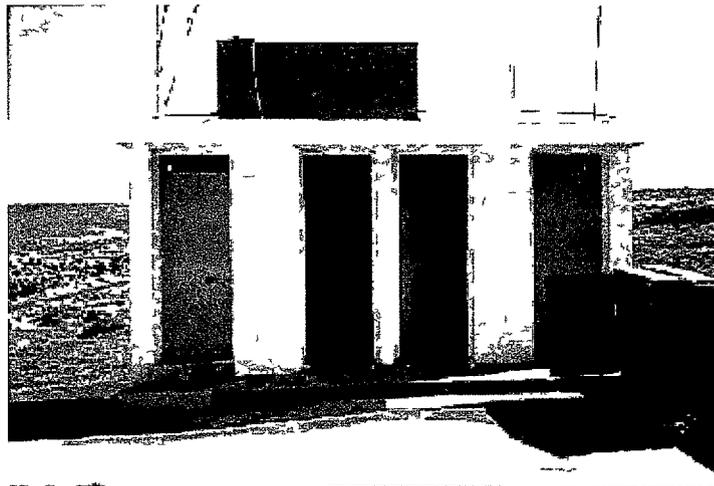
USAID Indicators 1 1 2d 500 Families Access to improved schools
1 1 4 1 Villages Villages implementing environmental management plans
1 1 4c 1 Activities Wastewater treatment
CHF2 4 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

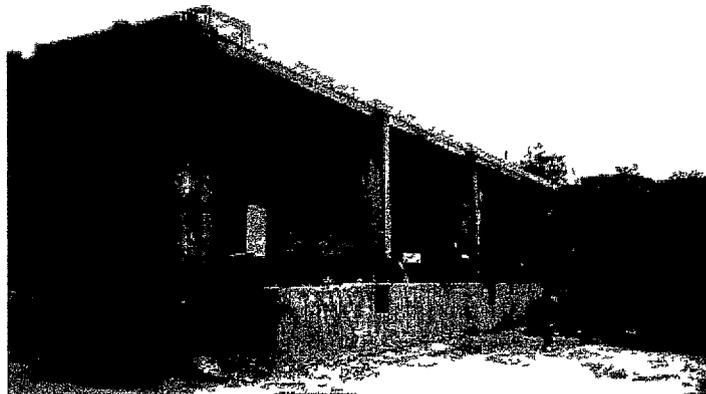
Village Rojrn Hussein
Project Public School Repair



The site for new school toilets



The Rojrn Hussein school toilets after completion



The quality of the school in one of Lebanon's poorest
regions

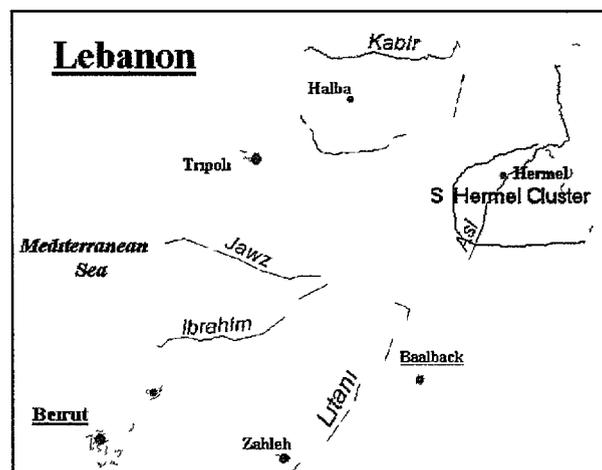
Cooperative Housing Foundation - Lebanon

Rural Economic Development Program (REDI)

Village Profile for - Cluster Wide, South Hermel
 Region - BEKAA
 Cluster - HERMEL SOUTH

Village Information

Population	45,865
Altitude	700 Mtrs
Distance from Beirut	180 Kms
Number of Basic Schools	16
Number of Secondary Schools	3
Number of Hospitals	2
Number of Dispensaries	8
Nearest School	N/A
Nearest Hospital	N/A



Village Description Located at the base of the Mount Lebanon mountain range on the northern frontier of Bekaa Valley, the South Hermel cluster is the gateway to a series of remote Northern Lebanese villages. Given its relative isolation, residents of Hermel, El Qaa and 8 other tiny villages surrounding Hermel generally rely on agricultural output and other micro-business ventures to make a living. During the war, many of the village residents left for Beirut or began to reside in Hermel. Thus, the majority of villages are only occupied by a few families, if that during the summer and are desolate during the winter. Also, given the lack of mainstream economic opportunities and rule of law, many residents in the past turned to illicit activities to improve their economic base. In recent years, both the local and national authorities have taken great strides in controlling the problem, and CHF projects have helped supplement government efforts by providing additional incentive for respectable community development. This, together with the area's acute, local political tensions, makes the cluster a difficult one to work in. However, CHF has identified with the committees a series of projects that will go toward the community identified priorities, those being farm irrigation, clean potable water and regional deforestation.

Projects Status Report

Cluster Wide, South Hermel

Project Title Slaughterhouse Construction
Project code 99-C003-001

Problem 19 butchers in Hermel and 45 butchers in surrounding areas were slaughtering animals on the sides of roads, resulting in contaminated public areas and watertables

Solution CHF is building a slaughterhouse in order to facilitate the handling of carcasses in an environmentally sound and friendly way. The structure will also improve the quality of food for area residents given increased sanitation. The "house" will consist of slaughter areas for both sheep and cows, an area for health inspection, a room for a veterinarian, one for a lab, an equipment room, a small guardroom, a washroom, and 2 cold storage spaces. The structure is being built with the future possibility of adding a meat cutting retail section as well.

Impact Three village municipalities (Hermel, El Qasr and El Qaa) will issue orders stopping the slaughtering of animals on the street.

Beneficiaries 12 000 Population of Hermel & El Qaa

Baseline No slaughterhouse exists in the region and open air slaughtering in the streets

Studies Architecture designs and civil works plan drafted

Status In-progress

Contract signed 09/29/1999
Start date 09/30/1999
End date-target 04/30/2000
End date-realized

CHF share \$ 120 000 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community	\$48,341 00	\$18 000 00

Remarks The municipality of Hermel will own the structure and sustain its operations. Primary treatment of blood will take place in storage tanks. The local contributions equal the cost of land (5,000 sq mtr @ \$3 per meter), the value of labor and the studies/maps/drawings completed in regard to the design.

Participants 4 Municipalities of Hermel, El Qaa and El Qasr as well as a local contractor

USAID Indicators 1 1 2g 4000 Families Access to other improved social infrastructure1 1 3c 64 Clients Clients accessing improved market place conditions1 1 4 1 Villages Villages implementing environmental management plans1 1 4b 1 Activities Environmental protection practicesCHF1 1 Villages Number of community disputes resolved or sloved.
 CHF2 25 Person monthes PM employment generated

Projects Status Report

El Qaa

Project Title **Rehabilitation, 10 km Irrigation Canal**
Project code 98-65140-001

Problem During the war period, irrigated water which ran from the Labweh village to El Qaa was cut off by other farmers illegally benefiting from the water supply, as well as other means of canal damage Given the situation, residents in El Qaa are forced to truck water in and/or extract it from wells both of which are very expensive inefficient processes

Solution CHF helped to negotiate a compromise with the various parties and the Ministry of Hydraulic Resources and Electricity (MOHRE) to restore the majority of water distribution to El Qaa A compromise allows for part of the water to remain with other villagers who have come to depend on the source for fruit production CHF rehabilitated 10 KM of canal and the MOHRE will rehabilitate 9 KM

Impact Increase farmer income due to more water for additional healthier crops and lower production costs Multiple villages starting to work together to resolve contentious water problems

Beneficiaries 7 000 Village Population

Baseline Average family pays between \$30 and \$100 dollars a month for water Surrounding lands are not cultivated Communities were not working together to address a common concern

Studies Various studies were obtained from the Ministry of Hydraulic Resources and Electricity

Status Completed

Contract signed 04/30/1998
Start date 05/10/1998
End date-target 06/10/1998
End date-realized 04/15/1999

CHF share \$ 28 000 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community	\$4,850 00	
	MOHRE	\$43 300 00	

Remarks Due to lack of funds and change in government, MOHER decided to postpone the execution of their part in the canal Originally they had renovated some parts and cleaned it However CHF has recently received an up-dated agreement from them to finalize the project In the mean time the village committee did basic minor repairs in the portion that was not completed and the water arrived for the first time in 20+ years
MOHER allocated \$ 33,300 to complete the minor repairs in the canal which is about 1000 m out of the 9 Km

Participants 3 Water committee, local contractor and MOHRE

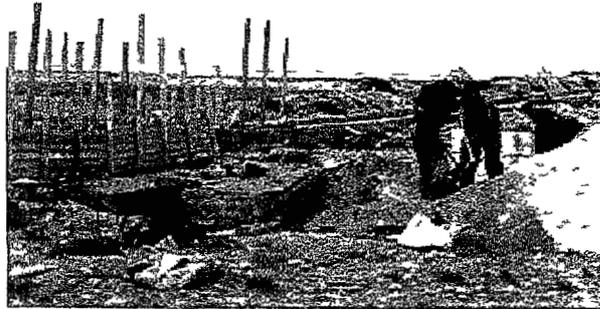
USAID Indicators 1 1 1a 500 hectares Number of hectares of land with upgraded production through new irrigation
1 1 3e 250 Clients Families or businesses w improved production
1 1 4 1 Villages Villages implementing environmental management plans
1 1 4a 1 Activities Restoration of green cover
CHF1 1 Villages Number of community disputes resolved or solved
CHF2 12 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

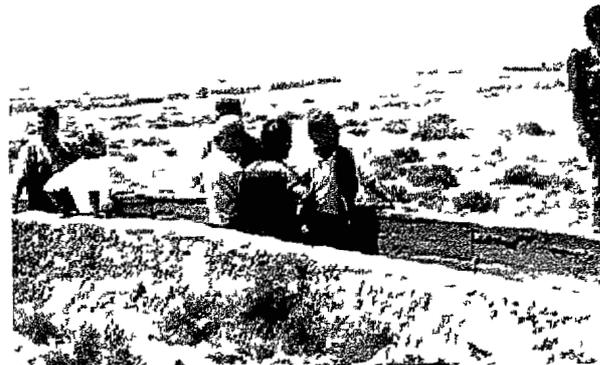
Village El Qaa Project Rehabilitation, 10 km Irrigation Canal



Mr John Chromy, U S Program Manager, visits the site with local residents



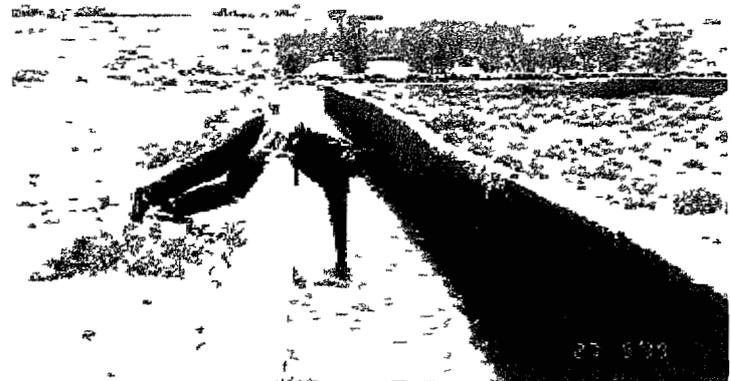
Farmers making in-kind contributions to CHF/USAID's work



USAID Mission Director, James Stephenson inspecting CHF's completed portion with its team



Tanks would drive over the canal during the war



CHF's Field Coordinator watches water flow for the 1st time in over 20 years!!!

Projects Status Report

Hermel

Project Title Regional (Re)Forestation
Project code 99-65179-001

Problem Once known for its beautiful forests Lebanon is nearing a complete deforestation given the effects of war and multiple years of environmental degradation

Solution CHF eight village committees and the UNDP are planting approximately 40 000 trees and shrubs in the public areas of 35 plus villages CHF is directly contributing to and assisting local committees manage the implementation in 8 villages under the REDI umbrella To date CHF has planted 1 250 trees in Hermel and has constructed a park Additionally CHF reallocated \$15 000 from the Fakiha campaign to build a sidewalk that connects the park to a local school

Impact Eight villages in three of REDI's clusters will have an improved greener environment to live in The villages include Baalbeck, Ez-Zekbi Labweh Halbatah, Jabouleh, Aarsal El Qasr & Hermel In addition, there is a significant impact on the entire region's ability to plan and work together Finally the trees will have a positive effect on the local water tables

Beneficiaries 37 000 Population of City

Baseline There are few to no trees in the entire region, and no trees in the areas where CHF is planting

Studies N/A

Status In-progress

Contract signed 02/15/1999

Start date 02/15/1999

End date-target 03/15/1999

End date-realized

CHF share \$ 23 000 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		\$2 240 00
UNDP		\$20 000 00	

Remarks CHF's financial contributions will go directly to the villages under the REDI and be managed by the local committees The committees will also care for and take responsibility for the protection of the trees Local contributions come from the committees, the UN the Lebanese Army and other international sources Quotes received were not village specific but for one bulk purchase UNDP took care of purchasing tools, renting machinery and irrigating the trees for the first 2 months After the project was started, CHF decided to (re)allocate an additional \$15 000 from the Fakiha Cluster Wide campaign to build a sidewalk for children to walk from a school to the park, since CHF chose not to fund the originally planned green areas in Baalbeck. The sidewalk is expected to prevent accidents on the narrow road In addition to the trees planted in Hermel a square and 200 m walkway are under construction which will give a nice view of Hermel city and a safe passage way for school children

Participants 4 Local committee, UNDP, Municipality, the Lebanese Army and local volunteers

USAID Indicators 1 1 1c 10 Hectares Hectares of land currently not cultivated brought back into production
1 1 2g 2250 Families Access to other improved social infrastructure 1 4 1 Villages Villages implementing environmental management plans 1 4a 1 Activities Restoration of green cover
CHF1 1 Villages Number of community disputes resolved or sloved
CHF2 12 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Hermel
Project Regional (Re)Forestation



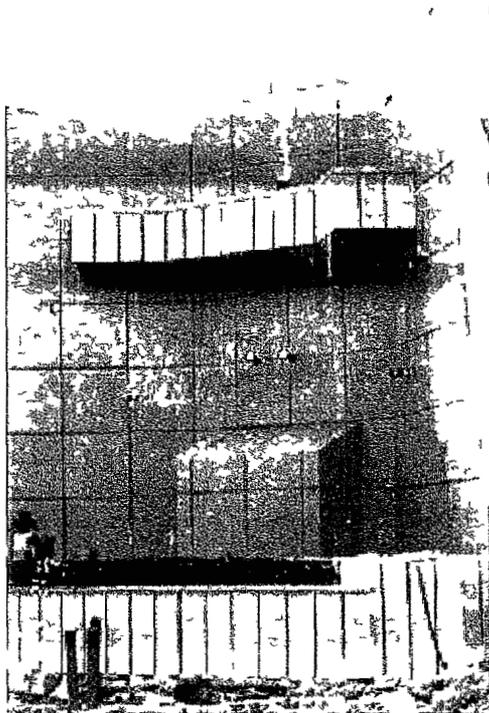
Over 500 volunteers from the Lebanese Army contribute
with the Red Cross and other local schools and NGOs



CHF Chief of Party, Ayman Abdalla inaugurates the program
which received over a week's worth of national press

Cooperative Housing Foundation, CHF - Lebanon REDI Program

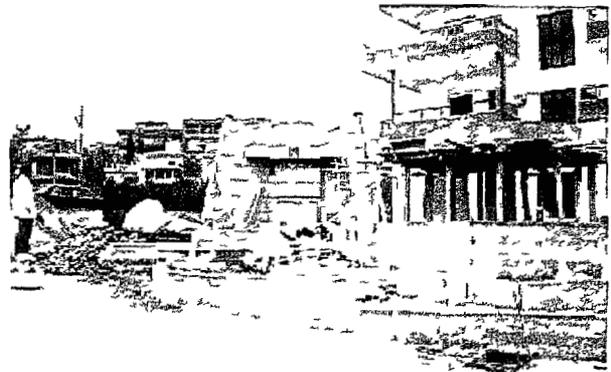
Village Hermel Project Regional (Re)Forestation



The completed fountain, the reforestation campaign and a new sidewalk in town make Hermel a better place to live



Constructing the village fountain



Construction begins on the village square



The planting continues promoting awareness among younger volunteers

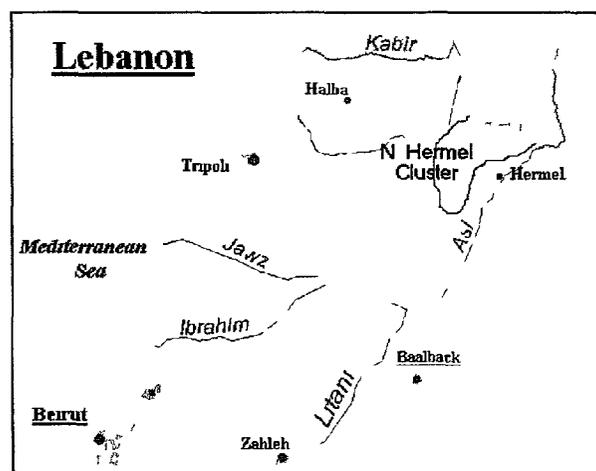
Cooperative Housing Foundation - Lebanon

Rural Economic Development Program (REDI)

Village Profile for - Cluster Wide, North Hermel
Region - BEKAA
Cluster - HERMEL NORTH

Village Information

Population	22,680
Altitude	750 Mtrs
Distance from Beirut	210 Kms
Number of Basic Schools	5
Number of Secondary Schools	2
Number of Hospitals	0
Number of Dispensaries	0
Nearest School	N/A
Nearest Hospital	30 Kms



Village Description North Hemel is the furthest cluster from Beirut and challenges CHF's Qobayat cluster (Wadee Khalled) as the most neglected, politically challenging area in the country to work. Tribalism still remains the main form of local leadership and governance. Thus, with any type of development project, there needs to be a great deal of focus on dispute resolution, civic participation and patience, especially since there has been over 40 years of contention (and periodic bloodshed) over water resources in the region. As with South Hermel, given its relative isolation, residents of the cluster, comprised of 8 small villages, rely on agricultural output and other micro-business ventures to subsist. During the war, many of the village residents left for Beirut or began to reside in either Baalbeck or Hermel, putting additional strains on each of those small cities. Also, given the lack of mainstream economic opportunities and rule of law, many residents turned to illicit activities in the past to improve their economic base. In recent years, both the local and national authorities have taken great strides in controlling the problem, and CHF projects have helped to supplement government efforts by providing additional incentive for respectable community development and management. These projects have revolved around and will continue to focus on water management, farm cultivation, regional reforestation, school construction and sewage treatment.

Projects Status Report

Cluster Wide, North Hermel

Project Title **Regional (Re)Forestation**
Project code 99-C002-001

Problem Once known for its beautiful forests, Lebanon is nearing a complete deforestation given the effects of war and multiple years of environmental degradation

Solution CHF, eight village committees, the UNDP and scores of local groups planted approximately 40 000 trees and shrubs in the public areas of 35 plus villages CHF directly contributed to and assisted local committees manage the implementation in 8 villages under the REDI umbrella To date CHF has planted 1,200 trees in El Qasr and 550 trees in Ez Zekbi and 400 trees in Fissane

Impact Eight villages in three of REDI's clusters have an improved, greener environment to live in In addition, there is a significant impact on the entire region's ability to plan and work together Finally the trees have a positive effect on the area's water tables

Beneficiaries 22,680 Population of Cluster

Baseline There are few to no trees in the entire region, and no trees in the areas where CHF is planting

Studies N/A

Status Completed

Contract signed 02/15/1999
Start date 02/15/1999
End date-target 03/15/1999
End date-realized 02/26/1999

CHF share \$ 4 000 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		\$1 200 00
	UNDP	\$10,000 00	

Remarks The committees and the UN both care and take responsibility for the protection of the trees Local contributions come from the committees the Lebanese Army and other international sources Quotes for trees were not village specific but for a bulk purchase UNDP took care of purchasing tools renting machinery and irrigation for the first 2 months

Participants 6 local committees/contractors L Army Municipalities Schools NGO's and UNDP

USAID Indicators 1 1 1c 10 Hectares Hectares of land currently not cultivated brought back into production
 1 1 2g 1000 Families Access to other improved social infrastructure 1 1 4 2 Villages Villages implementing environmental management plans 1 1 4a 1 Activities Restoration of green cover CHF2 7 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Cluster Wide, North Hermel
Project Regional (Re)Forestation



Volunteers came from schools, NGOs, clubs and other community groups to help take part



One of CHF's field coordinators thanks volunteers for their commitment to a greener environment

Projects Status Report

Charbine

Project Title Feeder Road Construction, 4 kms
Project code 98-65132-001

Problem Farm land could only be accessed by animals or in some cases tractors leading to a great deal of inefficiency

Solution CHF helped to open a 4 km road bridging two different villages and providing motorized vehicle access to farm land

Impact 280 farm families from two villages were able to reduce both travel time by 50% and other costs associated with crop production Additional land is being cultivated resulting in increased income

Beneficiaries 3 500 Population of Village

Baseline Although the distance between villages was only about 3 to 4 kms, it took the farmers about 45 minutes to make the trip

Studies N/A

Status Completed

Contract signed 01/14/1998
Start date 01/16/1998
End date-target 02/05/1998
End date-realized 02/28/1998

CHF share \$ 8,000 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community	\$1,500 00	

Remarks The communittee contributed by paying part of the labor provided by the contractor

Participants 2 village committee and a local contractor

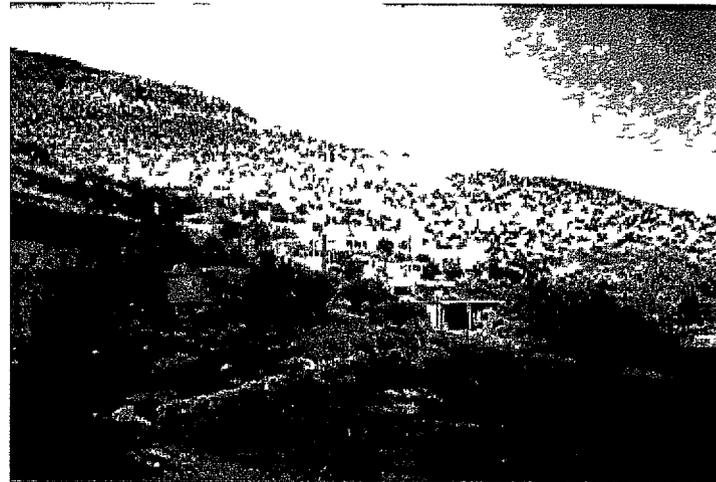
USAID Indicators 1 1 1b 400 Hectares Number of hectares accessed1 1 1c 50 Hectares Hectares of land currently not cultivated brought back into production
 1 1 2f 280 Families Families using new or protected access roads1 1 3e 30 Chents Families or businesses w improved production1 1 4 1 Villages Villages implementing environmental management plans1 1 4a 1 Activities Restoration of green cover
 CHF2 8 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Charbine Project Feeder Road Construction, 4 kms



The base of the road during construction Land use and productivity will increase



Charbine is one of many remote villages that CHF works in

Projects Status Report

Ez Zekbi

Project Title Potable Water to Ez Zekbi
Project code 98-65133-001

Problem As one of the most remote villages in Lebanon, currently no houses are connected to a potable water system. This equates into a lack of household sanitation practices that has a detrimental effect on the ground water. In addition, given the scarcity and cost of water, there have been numerous village conflicts over the years.

Solution CHF is working with the UNDP and a local village committee to develop a small reservoir and install 13 KM of pipes which will transport potable water to the El Zekbi, Houcharieh, Sahlat Al Mau, Sfeira and Kanafiz villages. This project complements the Hmaire Water Project.

Impact Approximately 1,000 families will be able to access the system, reducing household payments for water. Given the system, many families will be able to install more sanitized waste water facilities. Additionally, the ability to manage and monitor the system should reduce the number and size of water conflicts in the region.

Beneficiaries 1 000 Population of Village

Baseline 1 000 families with access to a potable water. Families paying up to \$100/month to truck water for homes and crops.

Studies Work is based on UNDP studies that focused on all aspects of the project: reservoir, water flow, water tables, etc. etc.

Status In-progress

Contract signed 08/06/1998
Start date 08/22/1998
End date-target 09/30/1998
End date-realized

CHF share \$ 35 552 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		\$4 000 00
	UNDP	\$65,100 00	

Remarks CHF and the water committee are exploring ways to ensure the best form of monitoring and metering water disbursements. The community's in-kind contribution was the labor for excavation and the UNDP's contribution was for labor and accessories provided for in the project.

Participants 3 Local contractor, the local water committee and the UNDP

USAID Indicators 1 1 2a 200 Families Access to improved potable water supply
 1 1 4 1 Villages Villages implementing environmental management plans
 1 1 4e 1 Activities Potable water treatment
 CHF1 1 Villages Number of community disputes resolved or solved
 CHF2 40 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Ez Zekbi Project Potable Water to Ez Zekbi



Digging the water lines in town



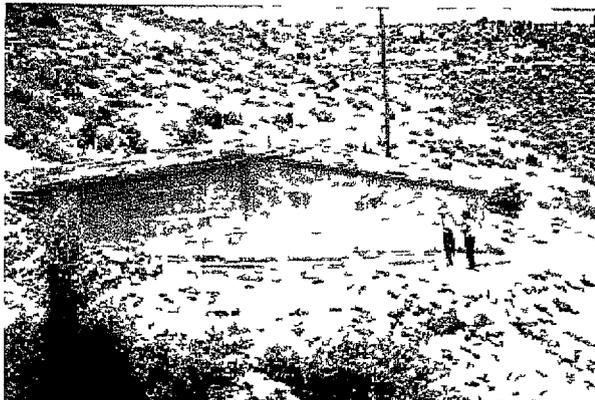
A family carries water home before project start-up



Villagers purchase expensive, often contaminated water before project implementation begins



Start-up on the mountain at the water's source



Both Ez Zekbi and Hmaire will draw water from the reservoir
A major community dispute resolved

Projects Status Report

Ez Zekbi

Project Title New Classroom Construction
Project code 98-65133-002

Problem The Ez Zekbi school is the only grade school in the Northern Hermel area 400 students sit in 15 classrooms (about 25 - 35 per class in classrooms no bigger than 5 by 5 meters) Space is so tight that a fuel tank and other equipments are scattered throughout the corridors

Solution To make adequate space, CHF is constructing four additional classrooms and a warehouse for school equipment

Impact 400 students will access improved learning facilities

Beneficiaries 1 000 Population of Village

Baseline 15 school rooms

Studies N/A

Status Completed

Contract signed 10/30/1998
Start date 11/09/1998
End date-target 02/10/1998
End date-realized 07/15/1999

CHF share \$ 35,000 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community	\$8,493 00	\$102,100 00

Remarks The school contributed by improving the safety and quality of its small "playground." Contributions included the labor and cost of the land The \$102 100 is the cost of land and existing building of the school

Participants 3 Local school, local contractor and the local committee

USAID Indicators 1 1 2d 400 Families Access to improved schools
 CHF2 40 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

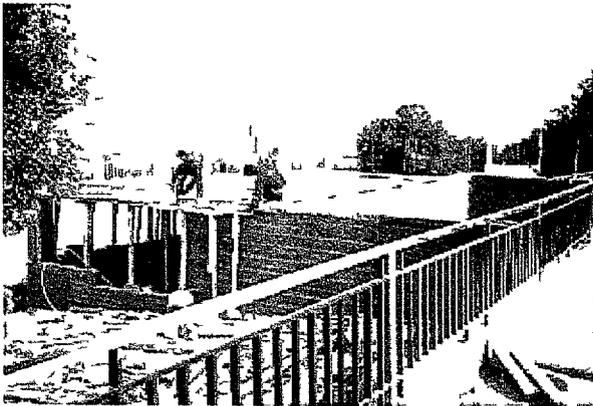
Village Ez Zekbi Project New Classroom Construction



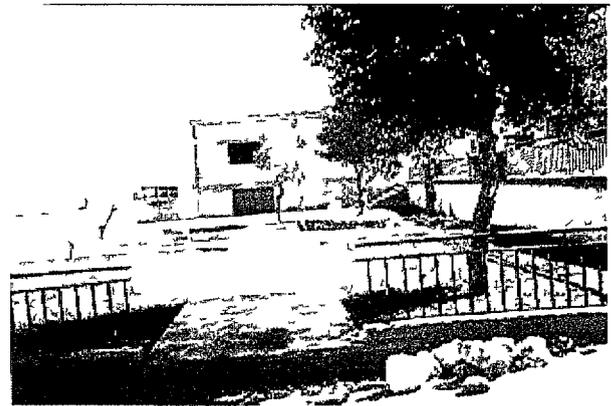
Project beneficiaries wonder what's going on



Site of the new classrooms for cluster residents



New classrooms in Ez Zekbi under construction



The near finished school and 1 of 2 gardens

Projects Status Report

Fissane

Project Title Potable Water Network Repair
Project code 98-65136-001

Problem The main potable water line was broken Thus when water reached Fissane it was both contaminated and full of debris

Solution CHF installed a water network that consisted of 453 meters of 4" pipes 300 meters of 3" pipe and 2550 meters of 1" pipe

Impact The work has increased existing water quantity and provided clean, safe potable water for 400 families There is a particularly large impact on the local community in regards to their ability to organize manage and account for a development project

Beneficiaries 3 000 Population of Village

Baseline No families had clean water

Studies N/A

Status Completed

Contract signed 01/19/1998
Start date 05/01/1998
End date-target 06/30/1998 (Delays were due to weather conditions)
End date-realized 08/15/1998

CHF share \$ 12,502 15

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		\$4,000 00

Remarks Local people have never contributed before to their own projects before CHF started work. In fact they often took money from local governments and didn't accomplish their objectives The local committee was impressed with itself for contributing to the project with labor and completeling its objectives on schedule and within the cost restraints Thus CHF chose to fund an additional project

Participants 2 Local committee and a local subcontractor

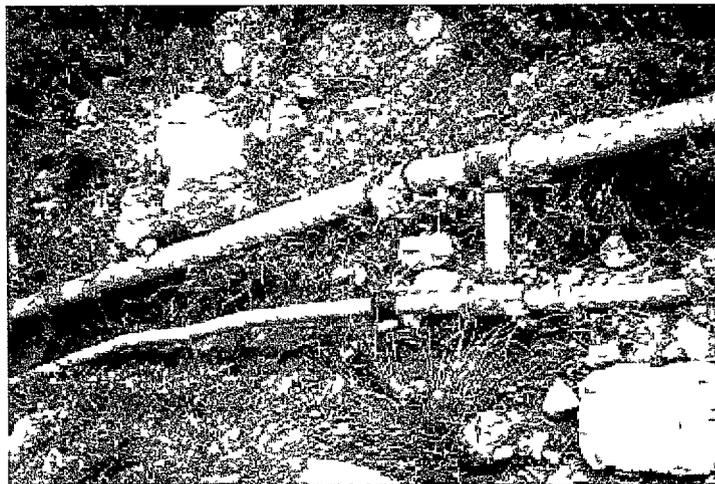
USAID Indicators 1 1 2a 500 Families Access to improved potable water supply
 1 1 4 1 Villages Villages implementing environmental management plans
 1 1 4e 1 Activities Potable water treatmentCHF2 4 Person monthes PM employment generatedCHF1 1 Villages
 Number of community disputes resoved or sloved

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Fissane Project Potable Water Network Repair



Committee members discuss project planning



The previous open line to Fissane did not do the job



A hard and long road ahead, bringing water down from its
mountain source

Projects Status Report

Fissane

Project Title Internal Potable Water Network
Project code 98-65136-002

Problem The main potable water line was broken. Thus, when water reached Fissane it was both contaminated and full of debris

Solution Given the success of the first Fissane project CHF signed a contract to install 1500 meters of 1" pipe for an additional 38 houses

Impact 38 families were able to connect to the potable water system and access cleaner water

Beneficiaries 3,000 Population of Village

Baseline No families had access to clean water

Studies N/A.

Status Completed

Contract signed 08/06/1998
Start date 08/06/1998
End date-target 08/30/1998
End date-realized 09/15/1998

CHF share \$ 1,175 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		\$1 100 00

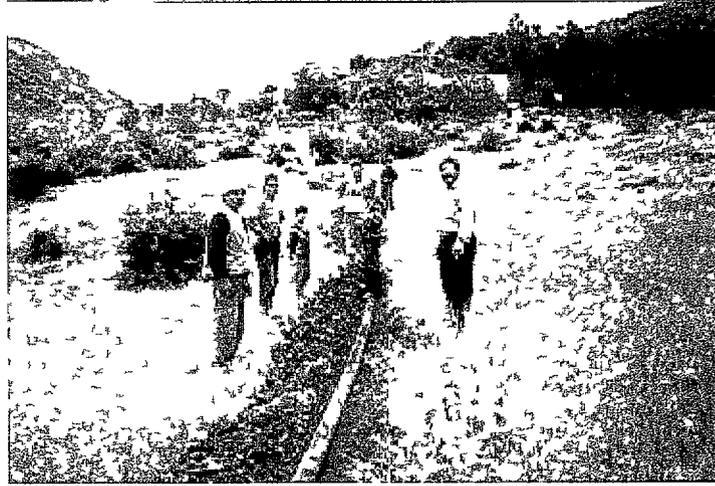
Remarks This is the second project CHF has funded following the successful completion of a first project In this project, the local residents also contributed labor

Participants 2 Local committee and subcontractor

USAID Indicators 1 1 2a 38 Families Access to improved potable water supply
 1 1 4e 1 Activities Potable water treatmentCHF2 2 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

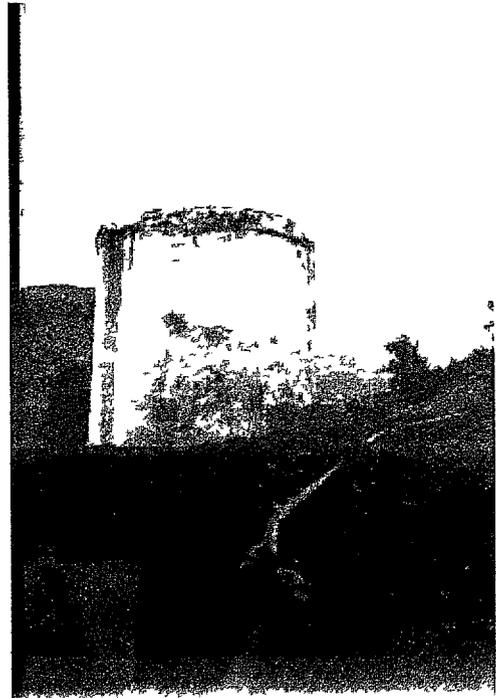
Village Fissane Project Internal Potable Water Network



Getting close to the village that needs the water



The new water line on its way to Fissane



The reservoir site will be improved by CHF. It draws water from a source shared by Hmaire and Ez Zekbi

Projects Status Report

Hmaire

Project Title Potable Water Line and Network
Project code 98-65137-001

Problem As one of the most remote villages that CHF works in, currently no houses are connected to a potable water system. This equates into a lack of household sanitation practices that has a detrimental effect on the ground/drinking water. In addition, given the scarcity and cost of water there have been numerous village conflicts over the years between the different villages.

Solution CHF is working with the UNDP and a local village committee to develop a small reservoir and install 6 kms of pipes. This project is linked to the Ez Zekbi potable water project.

Impact 1,000 families will access a potable water system, increasing health and decreasing negative environmental impact associated with the lack of such a system. There is a particularly large impact on the local community in regards to their ability to organize, manage and account for a development project.

Beneficiaries 1 100 Village Population

Baseline No houses connected to a potable water line

Studies CHF's "Environment Awareness and Practices Survey" focused on the area. The UN has conducted a survey studying the reservoir component.

Status In-progress

Contract signed 09/23/1998
Start date 09/23/1998
End date-target 11/15/1998
End date-realized

CHF share \$ 29 580 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		\$6,470 00
	UNDP	\$34 400 00	
	W.A.D.		\$2 000 00

Remarks The project has facilitated the civic participation of various villages and village members given 40 years of contention and conflict over the use of water in the region. Community members contributed in the installation of the internal water network, while the UNDP linked the network to the villages and reservoir. The final cost is higher than the quotes since a reservoir (to serve both Hmaire and Ez Zekbi) was added to the project at a later date. W.A.D. local NGO contributed \$ 2 000 for the supervision on the reservoir construction works.

Participants 3 Local water committee, local contractor and the UNDP

USAID Indicators 1 1 2a 200 Families Access to improved potable water supply
1 1 4 1 Village Villages implementing environmental management plans
1 1 4e 1 Activities Potable water treatment
CHF1 1 Villages Number of community disputes resolved or solved
CHF2 40 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Hmaire Project Potable Water Line and Network



Making sure the pipe gets buried properly in Hmaire



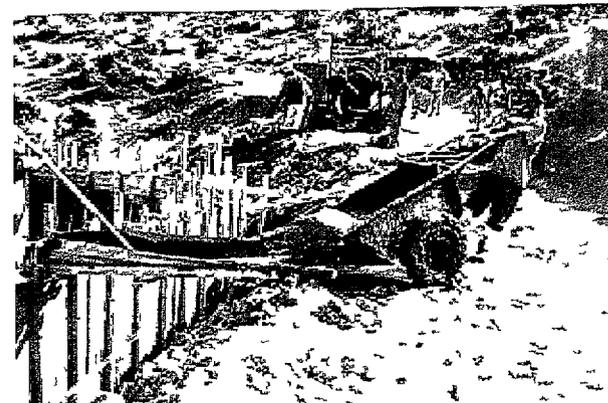
Reviewing project feasibility beforehand



Bringing the water down the mountain is no easy task



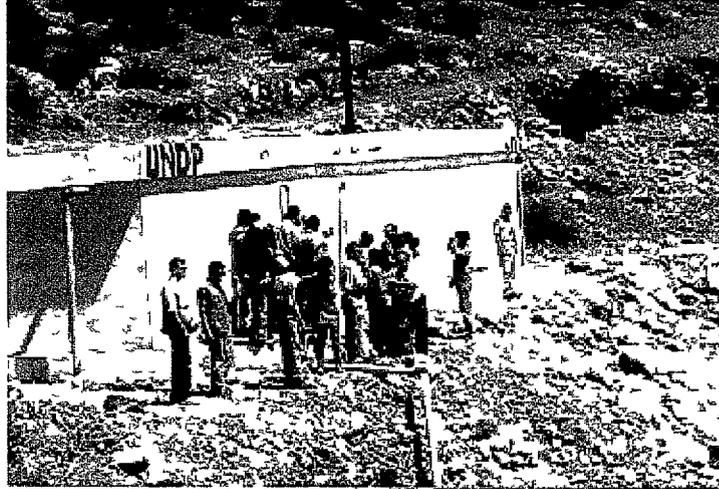
The reservoir will share water w/ Ez Zekbi



Work on top of a mountain is no easy task

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Hmaire Project Potable Water Line and Network



The reservoir completed constructed and ready to be tested



Mr Robert Randolph, USAID assistant administrator for Asia and Middle East Bureau, visited the Hmaire-Zekbi reservoir

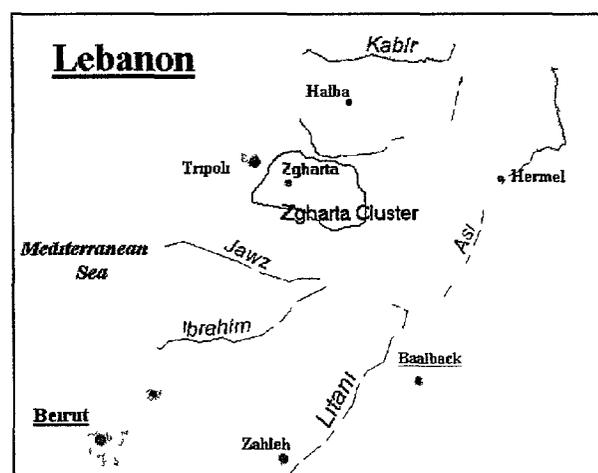
Cooperative Housing Foundation - Lebanon

Rural Economic Development Program (REDI)

Village Profile for - Cluster Wide, Zgharta
Region - NORTH LEBANON
Cluster - ZGHARTA

Village Information

Population	32,600
Altitude	350 Mtrs
Distance from Beirut	130 Kms
Number of Basic Schools	10
Number of Secondary Schools	5
Number of Hospitals	1
Number of Dispensaries	4
Nearest School	N/A
Nearest Hospital	N/A



Village Description Located just east of Tripoli at the base of the Mount Lebanon range, the 8 villages in this CHF cluster surround Zgharta, a moderate size town whose residents predominantly rely on the public sector to make a living. Agriculture as a whole is not as vital throughout Zgharta as in all other CHF clusters given access to Tripoli, though people still depend on a strong apple and olive crop to help supplement their incomes. An olive press exists in Zgharta itself and cooperatives are relatively strong. The latter point is important since two main economic concerns are the relatively small size of the "farms" and their negotiating position given the low price of produce, (due to the lack of adequate storage, the majority of product has to be sold during harvest time at low prices). Additionally, the cooperatives also pose an opportunity for CHF since it has applied various business-coop models worldwide as viable alternatives to truly sustainable economic development. Most of the villages have elementary schools in the cluster. Thus, even though the schools remain overcrowded and physically neglected, illiteracy is not the primary development concern. Instead, the most pressing need in most of the villages typically revolves around water management and pollution. There has been a lot of media attention in recent months focusing on disease outbreak in the Tripoli, Zgharta and Zgharta cluster areas, and many of the problems can be attributed to sewage, contaminated water and other environmental concerns. In addition, other problems requiring successful intervention entail expanded access to economic development programs, health and environment awareness and other basic infrastructure projects, all of which CHF and its local committees are addressing.

Projects Status Report

Cluster Wide, Zgharta

Project Title **Equiping a Milk Factory w/ a Laboratory**
Project code 98-C005-001

Problem There was no means of testing the quality of milk and water for the region given a developing agricultural base/complex funded by Rene Mouawad Foundation (RMF) that includes a cold storage facility a milk factory and an extension agency

Solution CHF established a laboratory to detect water contamination and to test the milk collected from the region's dairy farmers during and after the processing cycle

Impact Approximately 100 dairy farmers have an improved product line RMF secured a contract with the BOCTI company to distribute milk and by-products around the country

Beneficiaries 32 600 Population of Cluster

Baseline No such facility existed in the region

Studies N/A

Status Completed

Contract signed 04/29/1998
Start date 05/01/1998
End date-target 06/10/1998
End date-realized 06/18/1998

CHF share \$ 21 155 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		
	RMF	\$14 956 00	

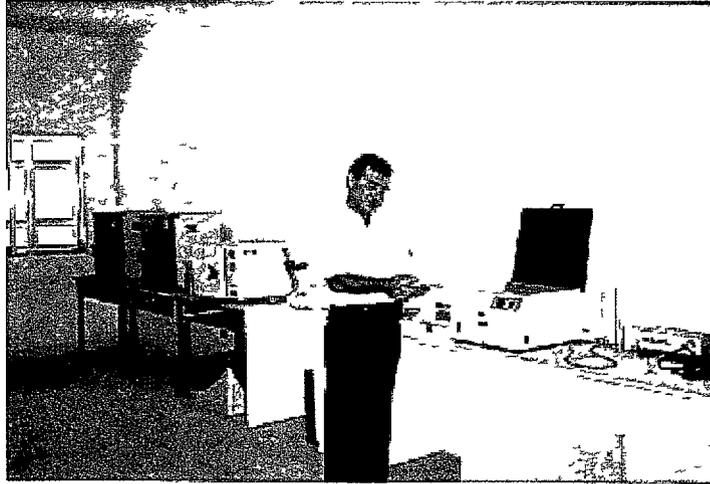
Remarks This project builds upon a previous USAID supported project (\$49 000) to establish a milk factory and a pasteurization center RMF contributed in repairing the location of the laboratory

Participants 1 Rene Mouawad Foundation (RMF)

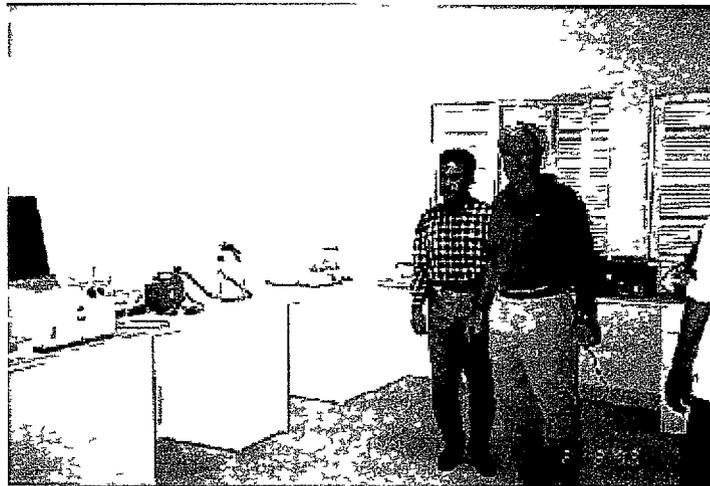
USAID Indicators 1 1 2g 100 Families Access to other improved social infrastructure1 1 3b 100 Clients Clients accessing new technologies
1 1 4 1 Villages Villages implementing environmental management plans1 1 4g 1 Activities Health + food/water quality improvementCHF2 2 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Zgharta Project Equipping a Milk Factory w/ a Laboratory



Inspecting the water and food testing equipment



CHF's President/CEO visits the project site on a Middle East
tour



One of the region's main food distribution facilities will
benefit from the testing equipment

Projects Status Report

Cluster Wide, Zgharta

Project Title **Water Purification Equipment**
Project code 98-C005-002

Problem The water accessed by the milk processing facility was found to be polluted and unsafe to drink
 This had a great effect on the region's quality of milk and other by-products

Solution CHF contributed by purchasing a water purification system that will vastly improve the quality of
 the processed milk.

Impact Approximately 100 dairy farmers have an improved product line leading to increased income and
 markets RMF secured a contract with the BOCTI company to distribute milk and by-products
 around the country

Beneficiaries 32 600 Population of Cluster

Baseline Lack of a proper system

Studies Consultant donated time to review and approve the offers

Status Completed

Contract signed 06/01/1998
Start date 06/04/1998
End date-target 06/17/1998
End date-realized 06/17/1998

CHF share \$ 5,600 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community RMF	\$1 768 00	

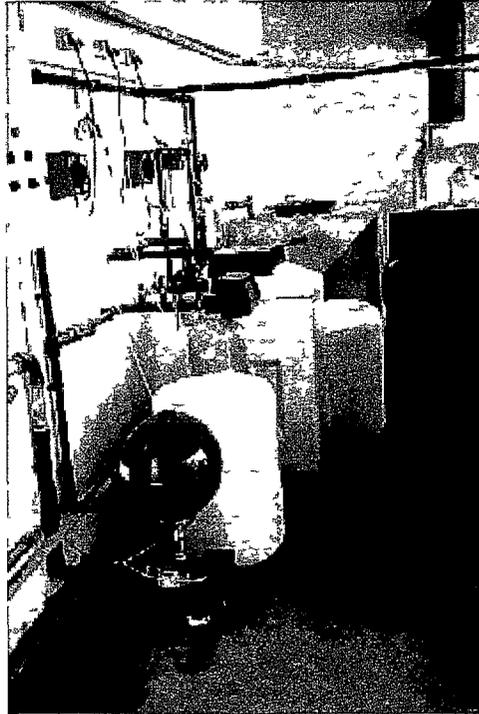
Remarks Built upon the successful completion of CHF's first Zgharta cluster project RMF contributed by
 building the water reservoir

Participants 2 Rene Mouawad Foundation and the BOCTI company

USAID Indicators 1 1 4g 1 Activities Health + food/water quality improvement CHF2 1 Person monthes PM
 employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Cluster Wide, Zgharta Project Water Purification Equipment



After running through the new filtration system, the water feeds into a regional milk processing facility



CHF's representative reviews the completed milk facility funded previously by USAID

Projects Status Report

Cluster Wide, Zgharta

Project Title Plant and Tree Nursery
Project code 98-C005-003

Problem Farmers are overproducing specific types of crops which, in turn, leads to extremely low prices and less income. In addition, lack of adequate competition forces the price of trees to increase which contributes to lower amounts of income for farmers, less cultivation and lack of reforestation efforts.

Solution CHF together with the Rene Mouwad Foundation (RMF), is developing a tree nursery that will result in the distribution and cultivation of approximately 200,000 plants, shrubs and trees. About 40% of the trees will be distributed in reforestation efforts around the country and about 60% will help introduce "alternative," virus-free crops for farmers to utilize in efforts related to income generation. Types of produce envisioned includes specific types of raspberry, almond, apple and avocado crops.

Impact As the project proceeds in the future, there will be a great economic and cultivation impact on the entire region since trees will be sold at \$2 a tree to needy farmers, as opposed to the current rate of \$5 per tree, and planted around North Lebanon. Additionally, there will be an increase in income to farmers who will have new types of crops not currently cultivated in Lebanon.

Beneficiaries 32,600 Families in the Cluster

Baseline Few nurseries exist in the region and those that do focus on house plants and more traditional agr products.

Studies A break even analysis was conducted indicating that the project should be sustainable at the beginning of year four, based on the sale of 30K trees per year at \$2 per tree.

Status Ongoing

Contract signed 04/20/1999
Start date 04/30/1999
End date-target
End date-realized

CHF share \$ 75,000.00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community		
	RMF	\$117,460.00	\$185,295.00

Remarks RMF manages the nursery. They provide in-kind in the form of land, equipment and admin functions that coincide with other work. They also make significant in-cash contributions in the form of labor and equipment, offset in part by the sale of approx 30,000 trees per year starting in year three. The sale will be at below market prices for farmers in need. Additionally, RMF will also supply CHF with approximately 30,000 trees at no cost in the future to use in reforestation campaigns.

Participants 2 RMF and local subcontractors

USAID Indicators 1.1.1c 5 Hectares Hectares of land currently not cultivated brought back into production
1.1.4a 1 Activities Restoration of green cover
CHF2 15 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Cluster Wide, Zgharta
Project Plant and Tree Nursery



CHF Chief of Party and Project Manager with RMF agriculture engineer at the entrance of the nursery with the workers

Projects Status Report

Deir Nbouh

Project Title Water Filtration System
Project code 99-65166-001

Problem A typhoid epidemic has broken out in the region due to unsafe drinking water capturing national attention Over 1 500 people recently became ill in this village (50% of population) due to bacteria in the water and over 150 people were hospitalized.

Solution CHF installed a water filtration system for the pipeline running from the mountain's water source to a reservoir tank located just above the village The system includes a manual bar screen chlorine injection system, feeder pump, control panel and relevant pipes

Impact 3 000 people received improved drinking water

Beneficiaries 3,500 Population of Village

Baseline House/source/water tank magnesium, 65/88/62, calcium 49/67/50, cloriforms 0/22/0 arsenic 0/22/0, and e coli 0/13/0

Studies CHF had a water test performed at the American University of Beirut to document a "non-biased" baseline

Status Completed

Contract signed 02/01/1999
Start date 02/08/1999
End date-target 03/10/1999
End date-realized 02/27/1999

CHF share \$ 10 250 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community	\$6 690 00	

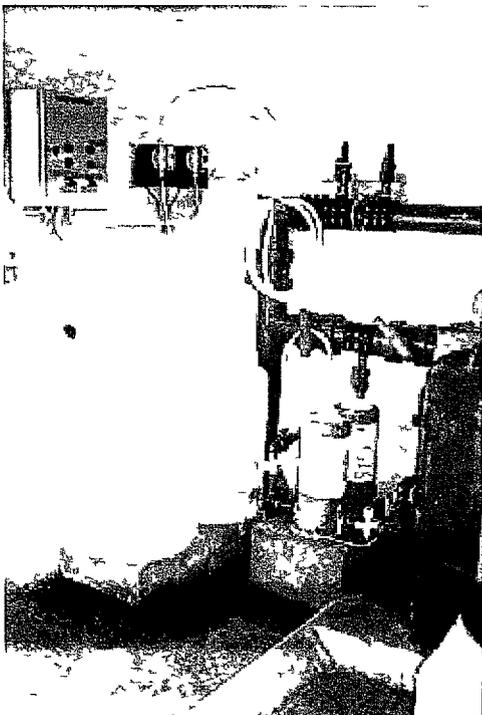
Remarks Given the national attention, the Lebanese army trucked in water to the village as a short-term solution The local contractor provided certain equipment free of charge RMF donated medical staff time and a dispencery for bi-monthly visits And the local community provided the room for installing the equipment improved road access and electricity

Participants 4 local committee local Municipality Rene Mouawad Foundation and Water Master

USAID Indicators 1 1 2a 500 Families Access to improved potable water supply
 1 1 4 1 Villages Villages implementing environmental management plans
 1 1 4e 1 Activities Potable water treatment
 CHF2 3 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

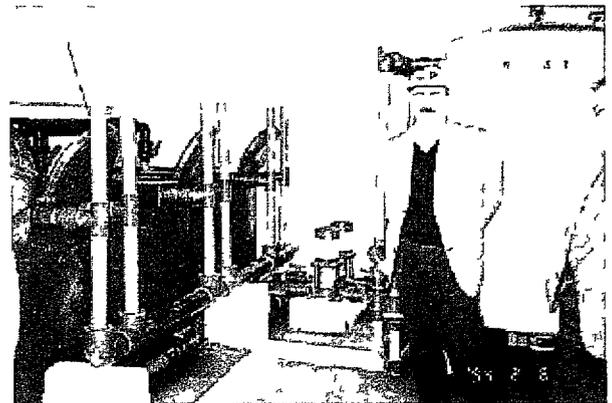
Village Deir Nbuh Project Water Filtration System



The electrical building and unit contributed by the local committee



Mrs Mouawad, a Parliament member and president of RMF reviews the problem with the Muncipal Director and CHF



CHF/L director checks the new system



The room built by the local committee to house the system

Projects Status Report

Deir Nbouh

Project Title Water for Irrigation
Project code 99-65166-002

Problem Excess potable water has been overflowing the reservoir tank due to a lack of capacity and flooding the village taking a toll on homes and other local infrastructure

Solution CHF and the local committee are installing 650 meters of pipes to transfer water from the local reservoir into the irrigation network so that it can be used for increased crop production

Impact 350 families will have reduced flooding and 30 families will have expanded economic opportunity given 100 hectares of improved production

Beneficiaries 3 000 Population of Village

Baseline There are approximately 200 hectares of cultivated land in the town CHF estimates that 30 families will access the "new" water

Studies Mapping where and how to lay the pipes

Status Completed

Contract signed 03/10/1999
Start date 03/10/1999
End date-target 04/01/1999
End date-realized 05/01/1999

CHF share \$ 6,721 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community	\$3 500 00	

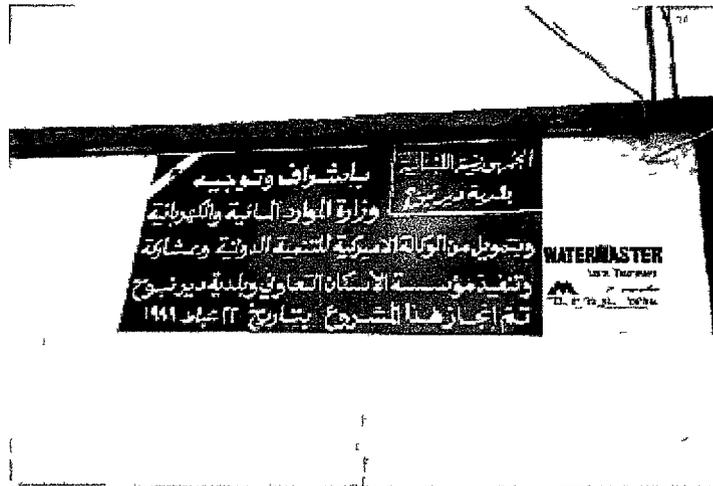
Remarks This project builds upon the first successful Deir Nbouh water management project The community contributed by installing the pipes and providing labor

Participants 2 Local committee and a local subcontractor

USAID Indicators 1 1 1a 30 Hectares Number of hectares of land with upgraded production through new irrigation
 1 1 2g 350 Families Access to other improved social infrastructure
 1 1 4b 1 Activities Environmental protection practices
 1 1 3e 25 Clients Families or businesses w improved production
 CHF 2 8 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Deir Nbuh
Project Water for Irrigation



Funds provided for by USAID, CHF & the Municipality of Deir Nbuh, and implemented w/ the Ministry of Hydrolic Resources

Projects Status Report

Kfar Houra

Project Title **Widening Internal Roads**
Project code 98-65162-001

Problem Inadequate and deteriorating roads inhibit larger garbage collecting trucks to access waste thus providing incentives for village members to illegally dump garbage on the side of the road

Solution CHF helped to widen and rehabilitate 4 internal village roads at a length of 234 meters In addition CHF built 129 meters (71 cubic meters of concrete) of retaining walls to help alleviate erosion

Impact 100 families benefit from the improvement of the four roads

Beneficiaries 550 Population of Village

Baseline N/A

Studies N/A

Status Completed

Contract signed 02/28/1998
Start date 04/10/1998 Late start due to weather conditions
End date-target 05/10/1998
End date-realized 05/15/1998

CHF share \$ 6 500 00

Contributions	<u>Donor name</u>	<u>Cash</u>	<u>In kind</u>
	Community	\$1 820 00	\$3 445 00
	RMF	\$4,640 00	

Remarks The community in-kind contribution was for donated labor and RMF's share was for the purchase of equipment

Participants 3 Local committee local contractor and Rene Mouawad Foundation (RMF)

USAID Indicators 1 1 2f 90 Families Families using new or protected access roads1 1 4 1 Villages Villages implementing environmental management plans1 1 4b 1 Activities Environmental protection practicesCHF2 4 Person monthes PM employment generated

Cooperative Housing Foundation, CHF - Lebanon REDI Program

Village Kfar Houra
Project Widening Internal Roads



The road during excavation



A widened road makes safer communities