

**YMCA of the USA/YMCA of Lebanon  
Integrated Rural Development Project  
1997 – 2000**

**USAID Program/Lebanon  
Cooperative Agreement No. HNE-A-00-97-0062-00**

**Progress Report  
(October 1, 1997 – March 31, 2000)**

**(April 15, 2000)**

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## I. SUMMARY

### ***A. Project Goal and Objectives***

The YMCA Integrated Rural Development Program in Lebanon is a three-year project beginning October 1, 1997 and ending September 30, 2000. The implementation plan is scheduled for execution on a yearly basis.

The U.S. Agency for International Development (USAID) is making available to the YMCA, through a Cooperative Agreement dated September 30, 1997 and amended September 14, 1998, the sum of US\$ 6,923,844 over a period of three years in support of this project. The YMCA also expects to raise the sum of US\$ 2,404,842 locally, in the form of community self-help donations, contributions from local governmental and non-governmental agencies and organizations.

The goal of the YMCA Integrated Rural Development Program in Lebanon is to promote stability and sustainable socio-economic development in targeted clusters of remote rural villages in Lebanon. An integrated package of project activities designed to meet this goal is being implemented in 6 clusters located in the cazas of Akkar (2), Baalbeck (1), Bint Jbeil - Marjeyoun (1), Nabatyeh (1), and Rachaya - Hasbaya (1).

The Integrated Rural Development Program is addressing identified problems in rural Lebanon, including uneven post-civil war economic recovery, lack of economic opportunities, rural to urban migration, environmental degradation, and disintegrated structures of civic participation in rural areas.

Despite the cessation of armed civil conflict 8 years ago, Lebanon is still beset by significant social, political, and economic problems created by the legacy of some twenty years of intense fighting. Foremost among the challenges now facing Lebanon is to address the continuing legacy of economic inequality which was one of the significant contributing factors to the outbreak of the civil war in 1975. In order to provide for the stable post-war reconstruction of Lebanon, the current urban-rural imbalances in the national economy and infrastructure must be addressed to mitigate the excessive urbanization and decimation of the rural economic sector of the country. The YMCA is attempting to reverse this legacy of economic inequality and rural-urban disparities by supporting sustainable development activities in rural and remote areas of Lebanon.

A holistic cluster approach has been designed to provide targeted assistance for expanded economic opportunities and improved community service structures in the 31 rural villages covered in the selected clusters. In both its design and mode of implementation, the integrated set of project activities, to be implemented at the cluster level, are intended to: (1) mitigate the negative social and political consequences of uneven economic recovery; (2) lessen the trend of rural to urban migration; (3) promote local self-reliance, tolerance, and governance; and (4) improve community awareness and the practice of appropriate environmental management procedures.

### ***B. Project Components***

In response to a baseline survey conducted by the YMCA of community resources and needs in each of the targeted villages, the integrated package of activities includes community rehabilitation and development projects in the following areas: agricultural infrastructure, public works infrastructure, health and education infrastructure, agricultural income-generation for women, community environmental management, and civic participation and community education. The integrated set of project activities, designed to meet the objectives of rural development in Lebanon, are addressed in the program's 4 major sectoral components described below.

### ***Component # 1 – Rural Infrastructure Development and Rehabilitation***

The project's first and major component is subdivided into 3 major sectors:

#### **Sector A: Agricultural infrastructure and skills training**

*Objective:* to achieve renewed and expanded economic opportunities in the agricultural sector via the construction and rehabilitation of agricultural infrastructure, and agricultural skills training for local farmers

*Project activities:*

construction and rehabilitation of agricultural roads, bridges, and retaining walls, as well as irrigation canals, dams, reservoirs, rain-fed pools, and river beds  
skills training for local farmers to improve productivity via new irrigation techniques, high yielding crops, proper use of pesticides, and optimal use of natural resources

Expected total outputs for the 3 years of the project in 6 clusters:

Activity	Outputs	Activity	Outputs
Agricultural roads	77,000 linear meters	Irrigation reservoirs	4
Agricultural bridges	6	Retaining walls	750 linear meters
Irrigation canals	47,900 linear meters	Clearing of river beds	5,000 linear meters
Rain-fed pools	3	Pilot fruit tree nursery	1
Irrigation dams	4		

Expected impact in the 6 clusters:

irrigation / cultivation of an additional 11,055 hectares of land

#### **Sector B: Public works infrastructure and rehabilitation**

*Objective:* to improve public infrastructure, potable water supply, and piped sewage networks, as well as local managerial capabilities in the community committees

*Project activities:*

construction and rehabilitation of potable water networks, reservoirs, rainwater drainage canals and sewage water networks  
skills training for local leaders, committees, technical personnel, and local NGOs to build capacities, promote effective management, and work towards sustainability . .

Expected total outputs for the 3 years of the project in 6 clusters:

Activity	Outputs	Activity	Outputs
Drainage canals	5,250 linear meters	potable water reservoirs	12
Potable water networks	37,000 linear meters	rehab of water reservoirs, springs, and wells	14
Waste water networks	500 linear meters		

Expected impact in the 6 clusters:

- improved public infrastructure for 5,175 families living in the 6 targeted clusters

#### **Sector C: Health and education infrastructure and rehabilitation**

*Objective:* to improve the quality and effectiveness of health and education services in the targeted clusters via the rehabilitation of physical structures, improved equipment, and skills training for community members and health and education workers

*Project activities:*

rehabilitation, furnishing, and equipment provision for local health dispensaries/centers and free-of-charge schools  
skills training for local community members and health workers in critical primary health care issues

*Expected total outputs for the 3 years of the project in 6 clusters:*

Activity	Outputs/#	Activity	Outputs/#
Rehabilitation and equipment provision for health centers	18 centers	Rehabilitation and equipment for free-of-charge schools	24 schools

*Expected impacts:*

- improved health and education services with increased accessibility for all community members
- decreased incentives for seeking health and education services in urban areas

### **Component # 2 – Agricultural Income Generation for Women**

*Objective:* to provide economic opportunities through skills training in income-generating activities for women in remote agricultural areas

*Project activities:*

skills training for women participants in hygienic food processing, natural preservation techniques, entrepreneurial skills, and sales and marketing techniques  
 establishment of a self-sufficient, sustainable Marketing Unit to link the women's groups (production) with markets (sales) which are often found in cities

*Expected total outputs for the 3 years of the project in 6 clusters:*

Activity	Outputs	Activity	Outputs
Skills training in cottage industry / micro-enterprise	300 training days with 25 women per training day	Development of marketing and sales unit	technical assistance in packaging, marketing, sales, business management

*Expected impact:*

increased opportunities and skills for women in income-generating activities

### ***Component # 3 – Community Environmental Management***

*Objective:* to implement adequate and environmentally sustainable management systems for solid and water waste, as well as to increase awareness of, and mobilization around, environmental issues

*Project activities:*

community awareness and training sessions on environmental issues affecting the community  
 youth mobilization and community actions in reforestation activities  
 education and implementation of effective, low-cost management systems for proper solid waste collection and disposal beginning at the household level  
 pilot projects in low-cost, local level waste-water treatment and disposal systems (i.e. multi-compartment filtering septic tanks)

Activity	Outputs	Activity	Outputs
Reforestation projects	20 hectares	Solid waste management systems	6 pilot projects
Waste water management systems	6 pilot projects		

*Expected impact:*

increased effectiveness of community environmental management systems which will decrease the adverse effects on the environment caused by inadequate systems of waste disposal and poor land management

#### **Component # 4 – Civic Participation and Community Education**

*Objective:* to create awareness, promote dialogue, understanding of differences, and to change people's attitudes; and, to promote greater participation in local development to ensure long-term sustainability of the project's benefits

*Project activities:*

conduct workshops, conferences, and seminars on such topics as: civic rights and responsibilities, techniques in problem-solving, group formation, volunteerism, the legal system, policy formulation, and community leadership

Activity	Outputs
Development of training materials and resources	new training materials in Arabic
Workshops, conferences, seminars, and training of trainers seminars	90 events; 150 trained people
Follow-up meetings and evaluation sessions	Policy development, amendment and law creation

*Expected impacts:*

higher level of social reintegration, community participation, and collective mobilization around common issues  
long-term sustainability and self-sufficiency of the developmental initiatives undertaken during the 3 year program by building local capacities for team-work, planning, and management of projects

*The overall impact of implementation of these project activities over a three year period will be (1) renewed and expanded opportunities for agricultural production, (2) improved community viability and incentives for resettlement, (3) increased opportunities and skills for women in income-generating activities, (4) increased effectiveness of community environmental management systems, and (5) increased citizen participation in civil life.*

## II. CURRENT PROJECT STATUS

The Integrated Rural Development Program is being implemented on a yearly basis, but monitoring and reporting of the program's status is being conducted every six months. This document will report on the progress of implementation and the achievements of execution for the period beginning October 1, 1997 and ending March 31, 2000 (cumulative information for 30 months/2 ½ years). In this document, the status of implementation and achievements are reported first according to cluster, and second according to project component.

The Integrated Rural Development Program in CLUSTERS have achieved, after thirty months of continuous successful operations, significant results and a high profile on the country level, in particular among national and International AID and development organizations, where this program started to be recognized as a viable development approach to rural areas.

Participation is a primary goal and key element of the YMCA's rural development program, and is being successfully operationalized at all stages of program development and execution. Local populations take part in the decision-making process involved in prioritizing and selecting projects. Local populations are also integrally involved in the implementation and management of activities.

Once the process of participation has been secured, program implementation proceeds according to the planned time sequence. Aside from minor delays and problems incurred, especially in the environmental sector of the program (refer to the Environmental management component section of this report), execution and finalization of individual projects has proceeded as per yearly schedule.

The Integrated Rural Development Program is, and as March 31, in the middle of the third phase of project implementation. Project execution has been accelerated due to the high level of interest in infrastructure projects and the effectiveness of the YMCA's approach in mobilization and interaction with local villages. The program's various components have already achieved a visible and tangible impact both on the physical economical level and on the human development end of the project. The conceptual approach of the program became well known to the targeted communities and has been appreciated and resulted in a high level of cooperation. Despite some delays incurred in the scheduled implementation of the environmental projects such

as waste water treatment systems and solid waste disposal facilities, the program has achieved a great deal in such a short time period. The YMCA rural program achievements will be detailed by cluster and sector in the following section of this report.

### III. STATUS REPORT BY CLUSTER

#### *The cluster approach*

*The YMCA Integrated Rural Development Program has been designed, and is being implemented, according to an innovative cluster approach. By targeting assistance to clusters of rural villages, this approach maximizes the impact of limited resources, and generates economically viable and sustainable communities. By employing a cluster approach, the YMCA is attempting to create links between neighboring communities and to bring people together towards a reconciliation of differences.... the cluster approach facilitates communities to identify similar problems, and to solve these on a cluster basis. As a result, the cluster approach fosters understanding, the identification of common interests and goals between neighboring communities, and creates a unified political body to lobby for increased attention for what were (and are) neglected areas.*

The Cluster approach seeks to stimulate links between villages on various levels ranging from infrastructure to coordination between actors in civil society. As these villages become involved in each project activity, the results vary due to the nature and complexity of the activity and its relationship to the internal and external factors. The results of the cluster concept are measurable to varying degrees on two different levels: 1) implementation of cluster infrastructure projects and 2) human development interaction and experience-sharing.

1) Through assessment of the program achievements to date, and based on the cluster concept cited above, it is clear that on the physical projects level, a cluster project that integrates all programs has not yet been achieved. Multiple cluster projects have been planned, were under study, and some of them went as far as being committed for implementation and the relevant contract signed (Jebrael Solid Waste facility was designed to handle the waste stream of four villages). Hindrances to project actualization were multiple and complex in nature, some of the factors which prevented the implementation of projects on a cluster basis were:

- Projects of a large magnitude tend to require extended time for study and design (potable water project (#127) for four villages in the cluster of Akkar El Attika, solid waste facility of Ksaybeh under planning (#EM 6)
- Projects on a cluster basis involve greater number of people, whether on the beneficiary end, or the cost sharing/partners side of the project agreement. The mobilization of local support, and the formation of cooperative linkages is then again, a time consuming process.
- The two points mentioned above have been dealt with, successfully, on multiple projects, but the major impediment to project achievement so far, have been securing the administrative, legal requirements before proceeding with implementation : Red tape, overlapping authorities, sluggish bureaucracies, government employees, delays...etc
- On more than two occasions, both the CDR (Council for Reconstruction and Development) and the Ministry of Hydraulic Resources have requested from the YMCA to cancel some of its scheduled projects-Akkar potable water, Akkar irrigation canals-which were under implementation because the government have allocated resources (from the World Bank and other international loan organizations) for the execution of those infrastructural projects.

2) Although, no cluster infrastructural project was executed so far, there are significant results on the level of interaction and experience-sharing. The cluster concept of *"bringing people together towards a reconciliation of differences.... To identify similar problems, and to solve these on a cluster basis... and creates a unified political body to lobby for increased attention..."*. This concept was emphasized, and focused upon, tremendously during the course of program implementation. And on that level, the program did achieve its stated objectives of:

- 1- *Bringing people together*, all training events were conducted on a cluster basis, even on inter-cluster basis, specifically the youth activities which managed to get future Lebanese citizens from underserved areas such as the North, the South, and even Beka'a to get together, to share, intermingle, and brainstorm on common issues.
- 2- *Identify similar problems*, several activities confirmed that municipalities are facing similar problems, and that the sharing of the knowledge base available to any one of them benefited the others. Kfarsyr Solid Waste Treatment facility have been visited for evaluation purposes by municipalities from within and outside the YMCA clusters, on numerous occasions, to assess possibilities of replicating the facility in other locations. The actualization of this project brought down the fears from

**Table 1: Activities Schedule by Cluster**  
**October 1, 1997 – March 31, 2000**

Cluster	Villages	Agriculture	Public Works	Health & Education	Environment	Civic Participation & Community Education	Cottage Industry Training
I	Akkar El Attika (Koss&Shakdouf) Aayat El Dawra	-24,300 m of agricultural roads, 2 bridges, 4 gangways, 1,958 sq. m of retaining walls - 24,295 m of irrigation canals, 2 irrigation reservoirs - Prototype farm & agricultural skills training	-2 potable water reservoirs and 2,665 m networks -410 sq.m of road retaining walls	- Construction of secondary level public school - Dental Hygiene campaign - Workshop / needs assessment in education	- 2 waste water treatment systems - Reforestation of 1000 trees	- Various Training for municipalities & community leaders (5 events) - Various training for youth groups (5sessions) - Equipment for municipality	-2sessions completed - 73 women graduates - 2 informal production groups
II	Tekrit Dahr El Laysyneh Jibrael Beit Mellat Rahbeh	- 12,750 m of agricultural roads, 2 bridges, 9 gangways, 1,350sq.m of retaining walls - 17,620 m of irrigation canals - Rehab. of 2 artesian wells - Agricultural demo plot & skills training	- 750 m of potable water networks	- Construction of two public school - Dental Hygiene campaign - Medical equipment for health facility	- Solid waste containers - Environmental needs assessment - Solid waste management center (Pending)	- Various Training for municipalities & community leaders (4 events) - Various training for youth groups (4 sessions) - Equipment for municipality	- 2 sessions completed - 76 women graduates - Production cooperative - Solar drying center
III	El Ain Fakiha & Zaytoun Jdaidet El Fakiha El Nabi Ousman	- 25,667 m of irrigation canals - Rehab of 2 water springs & irrigation reservoir - Prototype farm & agricultural skills training - 2800m of agricultural roads	- Rehab of 11,000m potable water networks - 1,267sq. m. of road retaining walls, 1 bridge - 2 potable water reservoir (300m2) - Topographic works for road	- Construction works for 2 schools - Extension works for a youth club. - Dental hygiene campaign - Administrative & technical training for dispensaries - Rehab of one dispensary - Equipment for 2 dispensaries	--	- Various Training for municipalities & community leaders (1 event) - Various training for youth groups (6 sessions) - Volunteer work camp (2 events) - Equipment for municipality	-2 sessions completed -67 women graduates -Solar drying center -Food Processing center -2 cooperatives & 2 production groups -one women association
IV	Bint Jbeil Aytaroun Maroun El Ras Blida Mays El Jabal Mhaybib Ainata, Ain Ebel	- 52,850m of agricultural roads - 330sq.m of retaining walls - 3 rainfed pools - Rehab of water source & irrigation reservoir	-2462sq.m of road retaining walls - 336m of drainage canals	- Rehabilitation works for 6 school facilities - Dental hygiene campaign - Rehab & equipment for one dispensary	- Reforestation of 1700 trees	--	-
V	Kfarsyr Adshit Brayka'a Ksaybeh Sir El Gharbieh Jibsheets	- 28,450 m of agricultural roads, 4 gangways, 1 bridge - Rehab .of 3 water springs & one irrigation reservoir - Const. One water dam & related pool - Agr. Training	- 1 elevated potable water reservoir, 1 bridge - 3,490 m of drainage canals - 2,675sq. m of road retaining walls - 1500 m potable water networks - Rehab. water source & reservoir	- 2 primary health care workshops - Construction of one youth club facility - Dental hygiene campaign	- 2 solid waste management centers (1 under planning) - Rehab of 1 spring & public park - Workshop on solid waste management - Reforestation of 1800 trees	- Various Training for municipalities & community leaders ( 2 events) - Various training for youth groups (6 sessions) - Volunteer work camp (2 events) - Equipment for municipality	- 2 sessions completed - 79 women graduates - 2 informal production groups -Distilling and food processing center -Production cooperative
VI	Tannoura Beit Lahya Ain Harsha Ain Atta Kfeir ,El Khelwat Mymess Marj El Zouhour	- 34,500m of agricultural roads, 1 bridge, 6 gangways, 766sq.m of retaining walls - 4 rainfed pools - Reb. Of water source & 1200m canals - Agr. Training	- 2,720 m of drainage canals - 2 water pumps - 2,500sq.m of road retaining walls - Rehab. of two water springs & reservoir	- Rehab of 3 health units facilities - Construction of a football & multipurpose court - Dental hygiene campaign - Administrative & Technical training for dispensaries - Equip. for 5dispensaries	- Reforestation of 5,085 trees - 1waste water system - Water source mapping & quality analysis. - Environmental activities	- Various Training for municipalities & community leaders ( 3 events) - Various training for youth groups ( 6 sessions) - Volunteer work camp (2 events) - Equipment for municipality	-3 sessions completed -130 women graduates -3 informal production groups -cooperative in progress -Beehives & honey center -Food processing bottling center

\* Please refer to Annex B for a detailed account of activities in each cluster.

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#### IV. STATUS REPORT BY COMPONENT

The Integrated Rural Development project, and for the sake of comprehensive design and reporting, have divided the program into four major components to match USAID strategic objectives of *Expanded Economic Opportunities, Increased Opportunities and Skills for Women, Community Environmental Management, Increased Citizen Participation....*

The Integrated Rural Development Program's four components are: (1) Rural Infrastructure Development and Rehabilitation (including agricultural skills training; public works rehabilitation and construction; and health and education facilities rehabilitation and construction, skills training, and health promotion.), (2) Agricultural Income Generation for Women (including skills training, production and marketing), (3) Community Environmental Management (including infrastructural rehabilitation and construction, skills training, and environmental education), and (4) Civic Participation and Community Education. The following section reports on the objectives, goals, and achievements of each of the program's components.

##### Component # 1 - Rural Infrastructure Development and Rehabilitation

###### **Objectives:**

to achieve renewed and expanded economic opportunities in the agricultural sector via the construction and rehabilitation of agricultural infrastructure, and agricultural skills training for local farmers  
to improve public infrastructure, potable water supply, and piped sewage networks, as well as local managerial skills and capabilities in the local committees  
to improve the quality, effectiveness of, and access to health and education services in the targeted clusters via the rehabilitation of physical structures, procurement of improved equipment, skills training for health and education personnel, and awareness-raising and health promotion amongst the community.

###### **Goal & Purpose:**

- to slow, and provide alternatives to, rural to urban migration
- to re-invigorate the primary income-generating sector in rural areas
- to increase households' income derived from agriculture
- to decrease incentives for seeking health and education services in urban areas
- to achieve healthier lives and communities in rural areas via construction and rehabilitation of public works infrastructure, particularly waste disposal and treatment systems
- to build local capacities for sustainable management of public works

**Project Activities:** The activities of the rural infrastructure development and rehabilitation sector are divided into three 'sub-components'. The activities of the first sub-component - agricultural infrastructure and skills training - include the construction of essential infrastructure (such as agricultural roads, irrigation canals, and retaining walls) and the training of farmers in new, but appropriate technology for increased agricultural productivity. The second sub-component - public works infrastructure and rehabilitation - includes construction activities for drainage canals, potable and waste water networks, as well as complementary skills training to improve local capacities for management of public works. The activities of the final sub-component - health and education infrastructure, rehabilitation, skills training, and awareness-raising/health promotion- focus on the rehabilitation of, and equipment provision for, local health dispensaries and free-of-charge schools, as well as complementary skills training for health and education personnel and awareness-raising campaigns for local community members.

###### **Status of implementation and achievements for the period ending March 31,2000.**

During the past thirty months of project execution, a total of 174 major rural infrastructural projects were identified, appraised and developed into viable work plans, and their financing agreed to and secured from all parties involved. Of these 174 actions, 141 projects (81.5%) have already been completed, 17 infrastructural actions (10%) are under execution, whereas only 16 actions (9%) are still in the negotiation and contracting phase. In addition, three prototype demonstration farms have been initiated, and are being used for the introduction and training on new alternative crops and farming technologies. Total USAID monetary commitment for the implementation of these projects amounted to U.S.\$ 2,369,671 (refer to annex A in the last section of this report for details on status, and relative monetary commitments, on a project by project basis). The Integrated Rural Development Program is fully operative in all the 34 villages encompassed within the geographical scope of the six YMCA clusters, also all the sub-sectors of the infrastructure component of the program are being implemented.

In a quick review of the program's history, it is clear that during the first year of project implementation, the rural communities have, in general, prioritized the development of agricultural infrastructure over other needs,

since agriculture is the main income generating activity in the targeted clusters. The second year witnessed - once the major needs in the agricultural infrastructure were satisfied - a resurgence in requests and project achievements in the public works sector of the local communities such as retaining walls, potable water networks and reservoirs and rainwater drainage canals. The first six months of the program's third phase, which this report covers, emphasized implementation of activities and projects in the health and education sector: Schools were built and/or rehabilitated, health facilities were developed, furnished and equipped and concurrent training sessions for the managing personnel were conducted, building of community centers such as youth clubs and sports facilities were initiated, are under execution or already completed. The following section of this report, will cover in detail the program achievements in each sub-sector of the infrastructure component of the program.

#### **(A) Agricultural Infrastructure and Skills Training**

Since the Integrated Rural Development Program began, actions executed under the agricultural sub-component have accounted for the construction of more than 155 kilometers of roads and support structures such as bridges, gangways and retaining walls. The completion of these actions has increased and secured access to a cultivated and/or cultivable area estimated at 4355 hectares of fertile land. Furthermore, approximately 296 new hectares have been reclaimed for cultivation due to the construction of these access roads. Continuous monitoring on new land areas under cultivation is undertaken and reported on a regular basis by the program staff.

Major infrastructural water management projects have also been completed, such as the construction of approximately 69 kilometers of irrigation canals and networks, 8 rainfed pools, 5 irrigation reservoirs and one water dam. Two artesian wells and related irrigation structures were rehabilitated with water pumps installed, also the rehabilitation works for seven water sources were conducted. These will insure the optimal use of the limited natural water resources, which are available in the concerned areas. An additional 1750 hectares of fertile agricultural land will be provided with improved or new irrigation due to the construction of holding and channeling structures.

Three prototype/demonstration farms have been established in three different clusters of rural communities to provide hands-on training for the local farmers on the most recent and appropriate techniques in farm management. So far, 14 training sessions, with 562 farmer participants and involving more than 21 villages, have been conducted (for details refer to the section on "Agricultural Skills Training")

#### **(2nd) Public works infrastructure Development and rehabilitation**

Since the beginning of the program implementation, thirty months ago, the local communities involved have identified and completed the execution of 34 public works projects. An additional five projects are under execution, whereas five others are still in the negotiation stage for contract finalization. Upon completion of all of the 44 public works and infrastructural projects, the following would have been achieved:

- a- Approximately 9,400 square meters of support and retaining walls, 2 bridges, 6,500 meters long of drainage canals. The execution of these structures will insure safe access to and use of village roads for approximately 10,500 families
- b- Construction of 7 potable water reservoirs, 16 kilometers of related piping networks, installation of 2 water pumps, and rehabilitation of 3 water sources. The completion of these works will ensure access to an improved and safe water supply for around 6000 families.

A total of US\$ 513,800 of USAID funds has been invested in the above works.

#### **(C) Health & Education Infrastructure Development, Rehabilitation, Skills Training & Awareness-raising**

In the health and education sub-component of the Rural Infrastructure Development and Rehabilitation sector of the program, a total of 29 major actions have been identified, designed, and implemented. These projects, which were identified as priorities by the communities themselves, included:

Rehabilitation works for (6) school buildings. These actions were mainly implemented in the Security Zone, where the Lebanese government outreach is limited, thus, rehabilitation and upgrading works for the public school buildings is inadequate. Works covered construction of school rainwater reservoirs (school facilities, specifically the toilets, are not connected to any water source), roofing and/or construction of children playground, and school sanitary facilities.

Construction of new, or additional physical facilities for (5) schools. These actions were mainly executed in the Beka'a and Akkar clusters where high fertility rate, and population density, is not

In summary, the last period under review, from Sept 99 till March 2000, witnessed an emphasis on implementation of projects in the health sector namely the development of health units in the remote rural areas covered in the program clusters of communities. Upon completion of the 29 actions identified in the sector under review, a total of 7,690 additional families will be served by a rehabilitated clinic or dispensary, 10,760 additional families served by extended school premises and 1,625 families will be using new community centers.

Table 2 below summarizes the total achievements of the rural infrastructure development and rehabilitation component by sub-sector.

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**Table 2: Rural Infrastructure Development and Rehabilitation  
Summary of Achievements by Sector  
October 1, 1997 – March 31, 2000**

Sector	Total Output	# of Projects /US \$ amount	Impact Indicator Planned (five years)	Impact Indicator Actual date
Agricultural Infrastructure and skills training (A)	<ul style="list-style-type: none"> <li>— 155,650 m long agricultural roads</li> <li>— 23 gangways</li> <li>— 6 bridges</li> <li>— 4,404sq.m retaining walls</li> <li>— 68,782 m long irrigation canals</li> <li>— 8 rainfed pools</li> <li>— 3 agricultural demonst. Plot / Prototype farms &amp; 14 session agr. Training</li> <li>— Rehab. of seven water sources</li> <li>— Equipping of two artesian wells</li> <li>— 5 irrigation reservoirs</li> <li>— One dam</li> </ul>	84 projects completed 8 projects in execution phase 9 projects in agreement phase  3 demonstration/training sites  <b>U.S.\$ 1,517,249</b>	<ul style="list-style-type: none"> <li>• 2,446 ha accessed</li> <li>• 1,909 ha reclaimed</li> <li>• 947.5 ha brought under irrigation</li> <li>• 800 ha with improved irrigation</li> </ul>	2,257 ha accessed 296 ha reclaimed 565.5 ha brought under irrigation 705 ha with improved irrigation
Public works infrastructure and rehabilitation (B)	9,318 sq. m of road retaining walls 6,546 m long of drainage canals 2 bridges 7 potable water reservoirs 2 water pumps 16km Potable water networks Rehab. of 3 water sources	34 projects completed 5 projects in execution phase 5 projects in agreement phase  <b>U.S.\$ 513,800</b>	<ul style="list-style-type: none"> <li>• 5,958 families with improved potable water</li> <li>• 10,481 families using protected access road.</li> </ul>	3,755 families with improved potable water 8,931 families using protected access road.
Health and education infrastructure and rehabilitation (C)	<ul style="list-style-type: none"> <li>— Const. of 5 schools</li> <li>— Rehab. of 6 schools facilities</li> <li>— Health workshop &amp; training</li> <li>— Dental hygiene campaign for 6 clusters</li> <li>— Rehab. works for 5 health facilities</li> <li>— Equipments, furnitures &amp; tools for 9 dispensaries</li> <li>— Const. of 2 clubs &amp; one football court</li> </ul>	23 projects completed 4 projects in execution phase 2 projects in agreement phase  <b>U.S.\$ 338,622</b>	<ul style="list-style-type: none"> <li>• 7,690 families served by rehabilitated/clinic</li> <li>• 10,760 families served by rehabilitated schools</li> <li>• 1,625 families using new community centers</li> </ul>	6,920 families served by rehabilitated / clinic 9,060 families served by rehabilitated schools 825 families using new community centers

Please refer to Annex A & B for a detailed listing of projects by sector, amount committed, relevant status, and related impact indicator.

## **Agriculture Skills Training Sub-sector.**

The aim of the Agriculture Skills Training is to assist farmers through the use of new methods of production and advanced technologies. The objective of this sub-sector is to introduce improved farming methods and techniques thus, increasing farmers production efficiency and income, consequently lifting and bettering their living standards.

To implement the training activities, three prototype farms in the cluster of Tekrit, Akkar al Attika and Nabee Osman (Bekaa) have been developed. These farms are used as training centers and demonstration sites to promote technical assistance about improved methods of farming and technology transfer, and to optimize the agricultural productivity, so that farmers could meet the required quality standards and take advantage of the new market opportunities.

### **Jebrail Farm:**

#### ***Demonstration plot***

The demonstration plot was developed to promote viable technology transfer and extension services that meet real local agricultural needs in the cluster. Taking into consideration the climatic, soil and water conditions in the area, new varieties and new crops of vegetables of high yield and good economic return such as red Cabbage, broccoli, fennel, Brussel sprouts, celery, sweet corn, honey dew, red and yellow pepper, etc. are being cultivated in Jebrail. In addition, new type of fruit trees such as kiwi and persimon have been cultivated. New cultural practices associating crop rotation, weeding, fertilizer application, proper pressurized drip irrigation system, appropriate harvesting and packing methods have been all conversant to assure a safe, increased sales price and marketable crop. Agriculture machinery devices to till soil are also introduced: a small cultivator to destroy weeds, and to loosen and aerate the soil is used progressively through the whole growing season, thus substantially reducing the amount of human labor for raising crops.

Markets for these crops have been identified where growers can expect to find attractive prices and an adequate level of demand.

#### ***Training sessions***

As presented in (table 3.1) below, a total of two hundred and seventy farmers from eight different villages in Akkar and Tekrit clusters, attended agricultural training sessions and technical advise on farm management together with improved crop varieties, better techniques and mechanization to enable them produce, at a reduced /low cost, marketable crops of high yields, quality and good economic return.

### ***Pilot fruit trees prototype farm:***

#### ***Demonstration plots***

Two demonstration plots of fruit trees have been established in Akkar al Attika (Akkar cluster) and Nabi Osman (Al Ain cluster in the Bekaa) and are currently in operation. The overall objective of these plots is to provide growers with necessary information and to assist them in adopting modern orchard practices and to encourage them make the transition from a dependency on old varieties to one on modern varieties which are capable of competing in both local and export markets.

The varieties selected were those propagated on clonal rootstocks with variable dwarfing characteristics that permit high density planting. These varieties will produce mature and highly productive trees as well as better quality and more marketable fruits. Different varieties of pears, nectarines, cherries, nashi, apples, peaches, and almonds were grown; each variety having a unique characteristic and special growth condition.

The established farms in Akkar al Attika and Al Ain include suitable space to plant 100-150 fruit trees of different varieties and types. The initial planting took place in March 1999 and included 100 fruit trees, in each farm, of differing varieties. The second planting was done in Feb 2000 and included another 50 fruit trees, in each farm. These new varieties are newly introduced to the market, and are propagated on clonal rootstocks, ultimately resulting in a higher yield.

On the prototype farms, a stand of fruit-bearing trees is arranged and maintained to yield crops of maximum size and quality where best practices are being demonstrated and growers are being trained to apply these practices and technologies to their own orchards. Improved and modern irrigation practices were set, a bubbler irrigation pressurized system that uses less water and provides better control is used with great success ensuring

a minimum loss of water through evaporation or percolation into the ground. Moreover, Integrated pest management (IPM) that aims at achieving the desired control while reducing the use of pesticides is properly employed. Weed – Control methods are also implemented to eliminate competing weeds. Pruning and training to frame the shape and increase fruit size together with soil management involving essential practices such as proper tillage; maintenance of a proper supply of organic matter and nutrient supply in the soil are also applied.

### *Training Sessions*

Training sessions were provided to assist farmers - growers in solving their most serious orchard management problems as an attempt to increase the productivity of the agricultural sector in the area. Attention was focused on improving agricultural practices and farm management techniques. Specifically, the training sessions addressed the following topics: new irrigation methods, fertilization, weed control, pest and disease control, fruit thinning, pruning and upgrading fruit trees, also new methods in packaging and handling of fruit. Eight training sessions and four training packages have been provided thus far. A total of 94 farmers/growers from Akkar cluster and 120 farmers/growers from Al Ain cluster participated in the training sessions. Table 3.2 below summarizes the topics covered, their objectives, and the number of participants who attended those sessions. Adopting all the improved and modern practices of soil management, better tree strains and varieties, integrated pest management, pruning to increase fruit size, orchard owners will be able to produce and package uniform, blemish-free fruit that is now standard fare in supermarkets store.

**Table 3: Agricultural Skills Training**  
**October 1, 1997 – March 31, 2000**

**Table 3.1: Jebrail Demonstration Plot**

<b>Title</b>	<b>Date</b>	<b>Cluster</b>	<b># of part</b>	<b># of vill</b>	<b>Objectives</b>
<i>Pest &amp; diseases control for apples, pears, pepper and eggplant</i>	26/ 7/98	Tekrit	34	1	<ul style="list-style-type: none"> <li>◆ To train participants in timing and quantity of chemical applications</li> <li>◆ To introduce new developments concerning agricultural practices</li> <li>◆ To stress prevention of certain problems as opposed to treatment</li> <li>◆ To convey the importance of knowing the active ingredient</li> </ul>
<i>Irrigation and fertigation</i>	8/8/98	Tekrit & Akkar al attika	49	6	<ul style="list-style-type: none"> <li>◆ To inform participants on the rationale irrigation schedule</li> <li>◆ To train participants in the quantity and method of water applications</li> <li>◆ To convey the benefit of Drip Irrigation Systems</li> <li>◆ To introduce the concept of chemigation</li> </ul>
<i>Fertilizer use And Application</i>	24/8/98	Tekrit & Akkar al attika	54	4	<ul style="list-style-type: none"> <li>◆ To introduce various fertilizers and methods of application</li> <li>◆ To train participants in selection of fertilizers, quantity and timing of application for different crops</li> </ul>
<i>Pest control on almond and olives</i>	17/9/98	Tekrit & Akkar al attika	21	2	<ul style="list-style-type: none"> <li>◆ To introduce concepts and methods of pest control for olives and almonds</li> <li>◆ To train participants in prevention of diseases that affect olives and almonds</li> </ul>
<i>Upgrading of Apple production in Lebanon</i>	6/11/98	Tekrit & Akkar al attika	85	4	<ul style="list-style-type: none"> <li>◆ To improve cultural practices</li> <li>◆ Pruning and training practices</li> <li>◆ Pest control and weed control</li> <li>◆ Pollination , fruit thinning and harvesting</li> </ul>
<i>Marketing: Problems &amp; Solutions</i>	19/12/99	Tekrit	27	3	<ul style="list-style-type: none"> <li>◆ Crop marketing strategies</li> <li>◆ Promotion of agricultural coop activities</li> <li>◆ Packaging, grade uniformity with related sales prices.</li> <li>◆ Promoting and diffusing Jibrael successful experiences</li> </ul>
<b>TOTAL</b>			<b>270</b>	<b>8</b>	

**Table 3.2: Pilot fruit trees prototype farm.**

Title	Date	Cluster	# of part	# of vill	Objectives
<i>Pruning and training of fruit trees</i>	5/3/99	Akkar	27	1	<ul style="list-style-type: none"> <li>◆ Proper pruning technique for newly planted trees</li> <li>◆ Effects of pruning on the structure and frame of trees</li> <li>◆ Basic pruning principles</li> </ul>
<i>Development of fruit trees production</i>	9/6/99	Al ain	43	2	<ul style="list-style-type: none"> <li>◆ To improve fruit trees production by adopting new methods in planting</li> <li>◆ To introduce new developments concerning orchard practices</li> <li>◆ To stress the benefit of rootstocks</li> <li>◆ To convey the importance , characteristics and specification of new varieties and kinds of fruit trees</li> </ul>
	2/7/99	Akkar	36	5	
<i>Irrigation and Fertilizers use</i>	24/7/99	Al ain	17	2	<ul style="list-style-type: none"> <li>◆ Rationale and timing of irrigation.</li> <li>◆ Quantity and method of water applications</li> <li>◆ Advantages of new irrigation techniques</li> <li>◆ Fertilizer use and methods of application</li> <li>◆ Fertilizer selection: quantity and timing of application for different crops</li> <li>◆ To introduce the concept of chemigation</li> </ul>
<i>Weed control</i>	27/7/99	Alain	60	3	<ul style="list-style-type: none"> <li>◆ Weed control measures</li> <li>◆ Suitable solutions and recommendations to combat weeds in fruit trees</li> <li>◆ Weed control practices</li> </ul>
	29/7/99	Akkar	31	5	
<b>TOTAL</b>		<i>Alain</i>	<i>120</i>	<i>3</i>	
		<i>Akkar</i>	<i>94</i>	<i>5</i>	

**Off farm training – Ksaybeh & Tanoura Clusters**

Title	Date	Cluster	# of part	# of vill	Objectives
<i>Olive production and Pest control</i>	10/2/00	Ksaybeh	25	1	<ul style="list-style-type: none"> <li>◆ Olive trees/ pest control</li> <li>◆ Integrated pest management techniques</li> <li>◆ Impact of irrigation and fertilizer application</li> <li>◆ Introduction of proper and advanced harvesting techniques</li> <li>◆ Improve and increase production at a lower cost</li> </ul>
	7/3/00	Tannoura	35	4	
<b>TOTAL</b>		<i>Ksaybeh</i> <i>Tannoura</i>	<i>78</i>	<i>5</i>	

**N.B:** Additional training session targeting olive tree growers have been provided in the clusters of Tannoura & Ksaybeh. These sessions have attracted 78 participants from 5 different villages.

## **Component # 2 –Agricultural Income Generation for Women**

### ***Objectives:***

- to provide opportunities for sustainable income-generation for women in remote rural villages
- to make use of surplus (often wasted) agricultural produce and to increase its value-added through processing and marketing
- to develop and improve links between women graduates and potential markets in order to bypass “middlemen” to whom much of the value-added is lost

### ***Goal & purpose:***

- to expand overall agricultural productivity
- to improve the well-being of poor women in rural and remote villages by providing them with sources of income, increasing their access to credit, and creating formal and informal groups of businesswomen graduates
- to promote healthy, safe, and chemical-free food production
- to assist households to preserve excess food from cultivation until seasons or years of deficit

***Project Activities:*** The primary activities of the Agricultural Income Generation for Women component are skills training in cottage industries and the establishment and operation of a marketing and sales unit for the products of the cottage industries. Two-month training sessions involve four-hour workshops, three times per week. The sessions are divided into three components: (1) theory and rationale behind the food processing techniques to be learned [two weeks]; (2) application and practice of the learned techniques [five weeks]; and (3) accounting, marketing, and pricing of products [one week]. Women participants learn to process domestically grown fruits and vegetables through scientific, hygienic, and chemically free techniques. The Marketing Unit has carried out the following activities: feasibility studies, marketing and sales promotion, transport and distribution, standardization and quality control, storage and packaging design, provision of technical assistance, basic training in bookkeeping and management for women’s groups; and is serving as an advisor to the groups.

### ***Status of implementation and achievements for the period ending March 31, 2000:***

Now, in the third year of the program implementation, The Agricultural Income Generation for Women component is entering its final business/professional phase. Recapitulating program achievements so far, the following strategy have been adopted:

During the **first year**, the program staff focused their efforts on carrying out training sessions for women in all the YMCA clusters (except in Bint Jbeil cluster in the security zone where access to the training team is limited). A total of 425 women from 27 villages have been trained in scientific and hygienic food processing techniques using only natural preservatives (refer to table4, which follows). The training package encourages women to form production cooperatives to ensure large-scale production capacity, competitiveness and economic sustainability. The ‘cooperative’ structure, provides the necessary legal and business framework for these groups to enter and become players in the processed food market. Up till March 31, 2000, approximately thirty-one women’s groups with 375 member trainees have been organized into production units. Twelve of these groups have already received their legal registration as cooperatives while some of the others are in the process of initiating the legal procedure to achieve this status. The remaining women trainees have chosen one of two alternatives: Either attempting to work, produce and market on an individual basis or, to keep the benefits of the training for their own household and refrain from any business risk initiative.

The **second year** of the program life span was devoted to realize the following: (1) Accompanying the women production groups first attempts at cooperative work, assistance in the procurement of raw materials, technical supervision, quality control, and finally large-scale specialized production of each group in specific consumer items to insure high quality and to avoid inter-group competition, (2) in parallel, the marketing unit of the program has tested important marketing variables such as market response, pricing policies, profit margins, and product appeal for/of consumer target groups. A brand name, label design, and logo have been designed and adopted. **Rural Delights** have been legally registered with the Lebanese Chamber of Commerce and a bar code system has been reserved for the wide variety of products generated under this brand name.

The **third year** witnessed the initiation of production centers. The need for these centers to provide an adequate level and quality of production became obvious once all variables such as product standardization, production cost...have been accounted for. The first center was initiated in the El Ain village in the Beka’a valley. It was equipped mainly with a large-scale solar dryer for fruits and vegetables in addition to shredding and fruit pressing machinery for vinegar production. Details of this pioneer project have been reported in the last program report of September 1999. A second center has been initiated in Nabatyeh cluster in the village of Ksaybeh. This new location equipped with machinery for flower distilling and olive pressing in addition to food processing tools and equipment. Three other production centers will be furnished in the very near future

one in Tannoura cluster (Khelwat village/West Beka'a) and it will specialize in soap production and olive oil bottling, the second one in Fakiha village, will process mainly Smoked Trout in addition to various other fruit jams and pickles, and the third one will be a replication of the El Ain solar drying center and it will be located in Tekrit village in the cluster of Tekrit in Qada Akkar.

Another economic opportunity project within the same operating concept have been developed in Kfeir village in Western Beka'a in joint cooperation with the local beekeeping cooperative in the area. Narrative details of this venture are provided at the end of this section.

These income generating/production centers have been initiated and developed in joint cooperation with a local cooperative to serve the purpose of providing adequate physical premises for a large-scale production and to insure economic viability of the business initiative as well as to provide adequate ground for future sustainability of the overall venture. Machinery, equipment and tools have been procured with the program monetary assistance whereas; the partner cooperative has locally provided the physical premises. Equipment and machinery were designed and conceived to minimize women labor effort, lower the cost of production and insure a high production capacity of the center.

So far, this initiative, specially targeting assistance to needy women in the rural areas, have proved to be a successful approach to lay the ground for raising the status of rural women both on an economic level and as a producing partner in the family unit.

Meanwhile, the project marketing unit is continuing its efforts to provide outlets for the sales of the consumer products generated by the women production centers through: participation in various professional exhibitions and initiating sales contracts with numerous consumer outlets. The YMCA, through its marketing unit, and in cooperation with the newly initiated production centers and women 'groups had started processing 200 tons of agricultural produce during this spring and next summer season. An estimated 845,000 units of 65 different consumer products will be generated for ultimate sale and income generation by the end of this year (2000)

#### *BEEKEEPING AND HONEY PRODUCTION PROJECT:*

A beekeeping and honey production center have been recently established in Kfeir village, in the Western Beka'a area. This project have been designed and implemented in participation with the Apiculture Cooperative Union for Kfeir and its suburbs. The aim of this center is to:

- ◆ to enhance apiculture activity in the area
- ◆ to train farmers on the latest bee keeping practices.
- ◆ to improve the management of honeybee colonies
- ◆ to increase quantity and improve quality of honey production
- ◆ to increase and promote sales of honey

Beekeeping is considered an additional income to be derived by farmers in rural areas. Economic benefit from honey production is generated with minor labor and investment. As an income generating activity beekeeping requires indepth training and technical assistance to minimize losses, improve in the quality and quantity of honey generated by the beehives, therefore, if proper marketing is provided, will result in improving farmers economic standards.

The center has two main physical facilities:

1. An apiary with an area of 1000 m<sup>2</sup> where, nectar-producing crops which are already grown, and it supports 100 colonies (beehives). The members of the Apiculture Cooperative Union for Kfeir have contributed 50 beehives for initiating the apiary and the project (Aid funded) have provided the other 50 to insure a commercially successful, self sustaining operation.
2. A modern honey production center, duly equipped with appropriate equipment, tools and machinery to insure access and usage of productive and domestic labor-saving technologies for: Honey extraction, royal jelly production, and bees wax salvaging. In addition, the center facilitates honey grading and sorting to assure a safe and good market. The center have been also furnished and designed to provide an adequate setup for training purposes to update the farmers database on the latest bee colonies management techniques

*The center has been established, equipped and fully furnished during March 2000, while a proper opening ceremony is planned for end of April. The apiary is expected to be relocated, and properly functional at the end of May 2000. The training sessions which will be delivered as of end April, will be provided by professional beekeepers and the training schedule will follow apiary's development throughout the seasons Moreover, joint efforts will be undertaken to initiate a cooperative marketing strategy for the honey production of the center*

whereby, the YMCA is considering integrating the center honey production within its overall marketing efforts for the cottage industry products generated by the women run cooperatives.

**Table 4: Agricultural Income Generation for Women  
October 1, 1997 – March 31, 2000**

<i>A) Training: food preservation and marketing techniques</i>										
<b>Code #</b>	<b>Cluster</b>	<b>Location</b>	<b># of Trainees</b>	<b># of Villages</b>	<b>Training Days</b>	<b># of Trainers</b>	<b>Amount Allocated \$</b>	<b>Local Contrib. \$ *</b>	<b>Total Cost (\$)</b>	<b>Status</b>
CI/V-1	V	Ksaybeh	38	2	28	17	11,443.50	1,000.00	12,443.50	Completed
CI/V-2	V	Kfarsyr	41	3	28	17	13,365.00	1,000.00	14,365.00	Completed
CI/III-3	III	El Ain	42	2	23	12	9,542.00	1,000.00	10,542.00	Completed
CI/III-4	III	Fakiha	25	2	23	14	7,740.50	1,000.00	8,740.50	Completed
CI/VI-5	VI	Ain Atta	42	4	21	15	8,951.50	1,000.00	9,951.50	Completed
CI/VI-6	VI	Ain Atta	57	4	21	15	7,256.50	1,000.00	8,256.50	Completed
CI/II-7	II	Tekrit	49	1	22	10	7,291.00	1,000.00	8,291.00	Completed
CI/II-8	II	Jibrael	27	3	22	10	5,441.00	1,000.00	6,441.00	Completed
CI/I-9	I	Akkar El Attika	43	1	23	10	8,125.00	1,000.00	9,125.00	Completed
CI/I-10	I	Koss Akkar	30	2	23	10	8,501.00	1,000.00	9,501.00	Completed
CI/VI-12	VI	Beit Lehya	31	3	26	9	13,700.00	1,000.00	14,700.00	Completed
<i>Totals:</i>			425	27	260	--	101,357.00	11,000.00	112,357.00	--
* Includes the estimated cost of rent, water and electricity during the training period.										
<i>B) Marketing: promotional stands and exhibitions</i>										
<b>Code #</b>	<b>Location</b>	<b>Activity</b>				<b>Amount Allocated (\$)</b>	<b>Local Contrib. (\$)</b>	<b>Total Cost (\$)</b>	<b>Status</b>	
CI/M1	Beirut 17-21 March	Promotional stand: Beirut Hall Exhibition				5,374.00	--	5,374.00	Completed	
CI/M2	Zouk 4-13 Sept.	Marketing stand: homemade products exhibition				4,001.00		4,001.00	Completed	
CI/M3	Beirut 20-24 April	Promotional and Marketing stand: Beirut Hall				4,519.00	--	4,519.00	Completed	
CI/M4	Saida 1-9 May	Promotional & Marketing stand: Al Rabih Exhibition				1,150.00	--	1,150.00	Completed	
CI/M5	Beirut/AUB 24-26 May	Promotional stand: AUB				83.00	--	83.00	Completed	
CI/M6	Tyr 1-11 August	Promotional & Marketing stand: Mouneh Exhibition				500.00	--	500.00	Completed	
CI/M7	Beirut 4-8 April	Promotional stand: Beirut Hall Exhibition				5,500.00	--	5,500.00	On-going	
<i>Totals:</i>						21,127.00	--	21,127.00	--	

<b>C) Income Generation &amp; Food Processing Centers</b>				
	<b>Amount Allocated (\$)</b>	<b>Local Contribution (\$)</b>	<b>Total Cost (\$)</b>	<b>Status</b>
El Ain Crop Drying Center: solar dryer, furnishings, equipment, utensils	25,000.00	3,000.00	28,000.00	On-going
Kfeir Beekeeping & Honey Production Center	25,000.00	7,500.00	32,500.00	On-going
Ksaybeh Distilling & Food Processing Center	13,257.00	3,000.00	16,257.00	On-going
Fakiha Food Processing/Trout Smoking Center	25,000.00	4,000.00	29,000.00	Under execution
Khelwat Food Processing/Olive Bottling Center	20,000.00	3,000.00	23,000.00	Under execution
Tekrit Food Processing/ Solar Drying Center	18,000.00	2,500.00	20,500.00	Under execution
<i>Totals: 6 production Centers</i>	126,257.00	23,000.00	149,257.00	--

### **Component # 3 – Community Environmental Management**

***Objectives:***

- to implement adequate and environmentally sustainable management systems for solid and water waste
- to increase awareness of, and mobilization around, environmental issues in remote and rural villages

***Goal & purpose:***

- to decrease the adverse effects on the environment caused by inadequate systems of waste disposal and poor land management
- to increase community awareness, participation in, and application of environmentally sound practices
- to improve the quality of living conditions at the local level, including a reduction in health problems

***Project Activities:*** The activities of the community environmental management component comprise primarily of educational and awareness campaigns, reforestation, and infrastructural development. Youth, in particular, are receiving training in project development and management related to environmental issues. Infrastructural development is primarily concerned with the construction of solid waste and waste-water management pilot projects in villages of the targeted clusters. It also includes the construction and rehabilitation of damage control infrastructure, such as culverts and retaining walls (to prevent soil erosion).

***Status of implementation and achievements for the period ending March 31/2000:***

The YMCA rural environmental strategy was developed taking into consideration multiple factors such as: Low technology, low cost pilot projects, consistency with local context, applicability, sustainability and possible replicability.

In the third phase of the program implementation, this strategy proved its viability in three major challenging areas: **Environmental protection** (treatment of community generated solid and water waste), **restoration of green cover** (reforestation campaigns), **awareness/local capacity building** (training and community mobilization)

For the past 30 months, the Community Environmental Management component has witnessed important achievements in the environmental sector and great strides were made towards the attainment of this component objectives of "... environmentally sustainable management systems for solid and water waste ", "... awareness around environmental issues..." ".

actualization: (1) The high level of financial contribution requested from the local municipalities entails administrative approval from central technical ministries which have been withholding their consent, (2) reluctance of the central authorities to relinquish their responsibilities to the locally elected municipalities, (3) government and NGOs contradictory approaches of central treatment plants versus local, community level responsibility.

The prevailing conflict of interests, in addition to the contradictory approaches, have caused tremendous delays in the implementation schedule of budgeted projects. Meanwhile, the management of the Rural Development project have been seriously considering two alternatives:

Canceling the implementation of the budgeted projects unless the community financial contribution is raised locally from the end users of the sewerage network (Koss Akkar project on-going),

Releasing the funds budgeted for wastewater treatment and reschedule them for solid waste disposal, and /or any other viable environmental activities.

#### The Solid Waste Management Center/Material Recovery Facility

**Solid Waste pollution** of the rural environment is one of the major challenging issues facing the locally elected authorities. This problem is of a critical nature even on the country level. After the initial setback encountered during the course of implementation of the first cluster wide facility in Jibrael, this pioneer pilot project was proven to be technically viable in Kfarsyr testing site.

The Kfarsyr solid waste facility has been in continuous operation since June 1999. The *Dynamic composting technology* proved its viability in the successful treatment of the organic portion of the solid waste generated by the inhabitants of the rural areas. The advantages of this technology over other proposed treatment systems are tremendous specifically reference: 1- Time (composting processes duration of three days only versus 60-90 days), 2- Land surface needs (0.2 hectares versus 0.6 hectares for pile composting of 10 tons daily), 3- Appropriate technology/low cost (US \$ 45/ton of waste), 4- Suitability to rural environment (organic waste portion in rural areas is about 65%), 5- Sustainability (locally run with trained labor).

*Details of the Dynamic composting technology and relevant technical information of the pilot solid waste facility is to be found in previous reports.*

Kfarsyr solid waste treatment center have been visited by numerous personalities including the minister of the environment Mr. Arthur Nazarian thereby receiving an indirect endorsement from the said ministry. Municipalities within and outside the geographical location of the YMCA clusters have monitored the continuous progress of the center, evaluated its advantages over other proposed alternatives and requested assistance from the program for possible replication of this project in their area of authority.. Several requests for implementation of a similar treatment center have been received by the YMCA. The program technical staff is currently planning the implementation of another solid waste treatment center for three villages (Ksaybeh, Braykeh, Adshit) on a cluster basis in Ksaybeh. Ground preparation for implementation of a cluster project is a challenging, tedious and long process involving legal agreements, assessment of sustainability issues, and numerous other preparatory steps which are time consuming specifically that the Council of the South have agreed to be a full partner in project initiation as well as in covering its operational expenses for the first year

Conclusion: Upon assessing the end results of the overall program activities developed under this component, there is no denying that a lot have been achieved so far, specifically in the area of projects piloted in the fields of solid and water waste treatment. Those two sources of environmental pollution of the local environment have plagued the rural areas without any viable solution to be proposed in the near future. The pioneer projects implemented by the program have proven their technical viability, local sustainability and their capacity to respond to the felt needs in this sector. Needless to say that the various activities of environmental concerns which have been implemented sofar such reforestation, training, workshops, youth volunteer camps...etc have increased the local communities awareness about the importance of preserving their local environment, and have locally initiated similar activities on a self help basis.

## **Component # 4 - Civic Participation and Community Education**

### ***Objectives:***

- to enhance awareness among citizens a) of their communities' developmental problems and b) of the capacities of communities to solve these problems;
- to train local committees and volunteer lay leaders in needs assessment, planning, proposal writing and execution, and evaluation of projects;
- to promote and improve skills in deliberation, dialogue, negotiation, and conflict resolution;
- to organize and mobilize youth for voluntary work at the community level;
- to promote civic education, democratic practices, self-reliance, tolerance, and local governance.

### ***Goal & Purpose:***

- \* To promote social reintegration, community participation, and collective mobilization around common issues.
- \* To ensure long-term sustainability and self-sufficiency of the developmental initiatives undertaken during the 3 year program by building local capacities for team-work, planning, and management of projects.

### ***Project Activities:***

The activities of the civic education and community participation component are designed to address the needs of the component's three target groups: local committee members, recently elected municipal governments, and youth. In response to a participatory needs assessment, the following major foci for assistance, training, and awareness-raising have been identified: (1) Local committee members will receive skills training in identification of common issues, problems and solutions, as well as group work, project management, and methods to overcome obstacles to achieving meaningful participation. (2) Municipal governments will receive pre- and post-election education on their roles, rights, and responsibilities vis-à-vis their constituencies, and training in democratic practices, project management, and the logistics of municipal governance; a pre-election awareness campaign will be directed to the local community addressing the definition and role of municipalities, as well as presenting a rationale for citizens to participate in elections. (3) Youth will receive education on democratic practices, volunteerism and development, and training in teamwork, leadership, project initiation, execution, and management.

### ***Status of implementation and achievements for the period ending March 31/2000.***

During the past thirty months of program implementation, i.e. from October 97 until March 2000, the component under review managed to conduct 23 major training events, which involved a total of 88 training days and attracted around 900 participants from all the targeted clusters of communities with the exception of Bint Jbeil cluster located in the security zone.

In addition, a 'capacity building' program for municipalities, was implemented in joint partnership and cooperation with the State University of New York (SUNY). The program included the provision of office and equipment, and training in computer skills to facilitate the computerization of the municipalities', administrative, financial, and municipal work. A total of 54 staff and elected municipality members completed the training. A total of 16 municipalities, received each, a set of computer and related equipment, fax machine, and photocopier.

Please refer to YMCA program progress report of up to September 30, 1999 for the narrative details on the civic participation component underlying rationale activities and related objectives.

A complete listing of the training activities and related objectives conducted so far, is found in table 6, which follows:

**Table 6: Civic Participation & Community Education**  
**October 1, 1997 – March 31, 2000**

Code	Cluster (and location)	Date	# of Participants	Activity Title	Format	Objective
CP1	Akkar El Attika Tekrit Tannoura Kfarsyr	11/5/98 15/5/98 23/5/98 26/5/98	100 50 40 35	Role and Responsibilities of the Municipal Council	Conferences	To raise awareness of and discuss the role and responsibilities of municipal councils.
CP2	Akkar El Attika	19&21/6/98	27 local leaders	Empowering Local Committees for Development Works	Workshop	To activate the role of local committees as participants in and leaders of local development.
CP3	Akkar El Attika & Tekrit (Tripoli)	29-30/7/98	38 northern NGOs & schools' reps	Children's Rights Protection	Workshop	Skills training for the prevention of and intervention in minor delinquency.
CP4	Kfarsyr (Beirut)	13-20/7/98	28 youths	Mobilizing Local Youth for Active Participation	Training camp	To introduce and train youth in participation, communication, democracy, group work, needs identification, project management, and environmental issues.
CP5	Akkar El Attika & Tekrit (Beirut)	22-29/7/98	58 youths from the 2 clusters	Mobilizing Local Youth for Active Participation	Training camp	To introduce and train youth in participation, communication, democracy, group work, needs identification, project management, and environmental issues.
CP7	Kfarsyr, Akkar El Atika (Adchit)	22-24/9/98	50 youth from 3 clusters	Rehabilitation of Public School	Voluntary work-camp	To integrate youth from different religious communities and regions of the country to work together on a project for communal benefit.
CP9	Tekrit (Rahbeh)	18/12/98 6&12/2/99	26	Municipal Governance	Work-shop training	To enhance municipal work
CP11	Akkar El Atika (Akkar / Ayat)	27/1/99 & 19&26/2/99	21	Municipal Governance	Work-shop training	To enhance municipal work
CP12	Tannoura (Ain Ata / Miness)	15/3/99 on going	21	Municipal Governance	Work-shop training	To enhance municipal work
CP13	Tannoura (Ain Ata) (Miness)	20/3/99 & 29/3/99	31	Education for development/ youth empowerment	Work-shop training	To increase youth participation & involvement in community work
CP14	El Ain (El Assi)	21/3/99	35	Education for development/ youth empowerment	Work-shop training	To increase youth participation & involvement in community work.
CP15	All clusters (Broumana)	5,6,7,8/4/99	15	Training of trainers	Training seminar	To train youth leaders for active mobilization & implementation of development /volunteer work.
CP16	El Ain Kfarsyr Tannoura (Ras El Metn)	16-21/7/1999	19	Volunteer Work Camp Director	Training camp	To train and prepare youth leaders from cluster villages, to conduct summer volunteer work camp in their clusters

Code	Cluster (and location)	Date	# of Participants	Activity Title	Format	Objective
CP17	Kfarsyr (El Ksaybeh)	6-15/8 1999	35	Construction of youth club	Voluntary work-camp	Implementation work and training on a project related to youth activities, in order to enhance their mobilization around a common project and issue
CP18	Tannoura (El Kfeir)	12-21 8/1999	57	Construction of a football and multi-purpose court	Voluntary work-camp	Implementation work on a project related to youth activities in order to enhance their mobilization around a common project and issue
CP19	El Ain (Nabi Ousman)	18-27 8/1999	25	Extension works for a youth club	Voluntary work camp	Implementation work on a project related to youth activities in order to enhance their mobilization around a common project and issue
CP20	El Ain (Nabi Ousman)	31/10/1999	40	Education for development/ youth empowerment	Training/2nd phase	Diagnose needs and suggestion for developmental plans
CP21	Tannoura (El Kfeir)	7/11/1999	28	Education for development/ youth empowerment	Training/2nd phase	Diagnose needs and suggestion for developmental plans
CP22	Kfarsyr (El Ksaybeh)	14/11/1999	17	Education for development/ youth empowerment	Training/2nd phase	Diagnose needs and suggestion for developmental plans
CP23	5 Clusters	1999	54	Provision of equipment & computer training for 11 municipalities		
CP24	5 Clusters (7clubs) El Ain, Tannoura, Kfarsyr, Akkar el Atika, Tekrit	11-12/12/1999	19	Youth clubs, organizational role in rural development	Training seminar	Exploratory phase: Investigate level, capacities, and future capabilities of available local clubs to encompass youth activities.
CP25	Tannoura (El Kfeir)	15-16/1/2000	20	Environmental protection/ Reforestation	Voluntary work-camp	Implementation work and training on a project related to youth activities, in order to enhance their mobilization around a common project and issue.
CP26	El Ain (Nabi Ousman)	29-30/1/2000	33	Environmental protection/ Reforestation	Voluntary work-camp	Implementation work and training on a project related to youth activities, in order to enhance their mobilization around a common project and issue.
CP27	5 clusters(7clubs) El Ain, Tannoura, Kfarsyr, Akkar El Attika, Tekrit	19-20/ 2/2000	25	Project selection development, and execution design	Training seminar/2 <sup>nd</sup> phase	Responding phase: identifying, planning and securing financial and legal support for development plans and actions.
<b>Total</b>		<b>88 days</b>	<b>947 Partic.</b>		<b>24 events</b>	

## E. PROGRAM IMPACT INDICATORS

In agreement with USAID's "Lebanon Country Development Strategy" the YMCA have been using a set of critical indicators corresponding to the planned outputs of each project segment implemented under the Integrated Rural Development Project. Recently, and complying with multiple requests, the USAID mission in Lebanon have agreed to reduce the number of indicators and to simplify the reporting procedures. With the assistance of an environmental consultant, and in joint partnership with the five NGO's, agreement was reached on a new set of indicators which will reflect the impact of the activities and overall progress on each component. The new set of indicators (& old ones remaining) will contribute to USAID mission "Strategic Objective (SO1)" for "Reconstruction and expansion of economic opportunities" and specifically to the Intermediate Result 1.1 of "Selected Rural Communities Revitalized" and they will also contribute to the country Special Objective (SPO5) of "Improved Environmental practices".

**Annex B** provides the planned/estimated level of the intermediate result indicator of the program various components as coded down below. It also specifies on a project by project basis, relative cost, level of contribution, and actual todate impact achieved.

### **Strategic Objective 1** **Reconstruction and Expanded Economic Opportunities**

#### **Intermediate Result 1.1: Selected Rural Communities Revitalized** **Rural Infrastructure Development**

Sector (a)      Agriculture 1.1.1 Hectares cultivated/irrigated /improved or accessed (hectares)  
                  1.1.1a: New hectares brought under irrigation  
                  1.1.1b: New hectares accessed  
                  1.1.1c: New hectares reclaimed or terraced  
                  1.1.1d: New hectares with improved irrigation

Sector (b) &(c) Social 1.1.2: families accessing new/ improved social infrastructure (Families)  
                  1.1.2 a: Families with improved potable water  
                  1.1.2 b: Families accessing rehabilitated / new sewer system  
                  1.1.2 c: Families served by rehabilitated / clinics (families)  
                  1.1.2 d: Families served by rehabilitated/expanded schools (families/students)  
                  1.1.2 e: Families using new/rehabilitated community centers  
                  1.1.2 f: Families using new/protected access roads (families/meters)

#### **Income Generating Activities/Cottage Industry**

1.1.3: Clients accessing expanded economic opportunities (clients)

### **Special Objective 5** **Improved Environmental Practices**

#### **Community Environmental Management:**

1.1.4: Villages implementing environmental management plans (villages)  
          1.1.4 a: Restoration of green cover  
          1.1.4 b: Environmental protection practices  
          1.1.4 c: Waste water treatment  
          1.1.4 d: Solid waste treatment  
          1.1.4 e: Potable water treatment  
          1.1.4 f: Awareness campaigns/workshops

**Table 7** which follows is a summary schedule of total project achievements by sector, relative cost, level of contribution, end of project and actual todate agreed upon impact indicators as assessed and measured by the project staff as of March 31, 2000.

**Table 7 : Summary Schedule - Program Output ,Cost, Contribution and Related Indicators**  
**October 1,1997 - March 31 , 2000**

Indicator	Indicator Details	Project Output	Amount US\$	Contrib US\$	Planned	Actual to Date
<b>Agriculture</b>						
<b>1.1.1</b>	<b>Hectares cultivated / Irrigated incrementally</b>				<b>6102.5</b>	<b>3823.5</b>
1.1.1 b	New hectares accessed	155,650m long of agricultural roads,23 gangways,6 bridges; 4,404 sq.m	1,517,249	1,220,671	2446	2257
1.1.1 c	New hectares reclaimed or terraced	road retaining walls, 3 prototype farm& 14 sessions of skills training			1909	296
1.1.1 a	New hectares brought under irrigation	68,782 m long of irrigation canals, 5 irrig reservoirs, 7 water sources, 8			947.5	565.5
1.1.1 d	New hectares with improved irrigation	rained pools, one dam, rehab.of 2 artesian wells			800	705
<b>Social Infrastructure</b>						
<b>1.1.2</b>	<b>Families accessing new /improved social infrastructure</b>				<b>36,514</b>	<b>29,491</b>
1.1.2.a	families with improved potable water	7potable water tanks &reservoirs, 16 km potable water networks, 2 pumps, rehab. of 3 water sources	513,800	343,764	5958	3755
1.1.2. f	families using protected access roads	6,546m drainage canals; 9,318sq.m road retain walls, 2 bridges			10481	8931
1.1.2.c	families served by rehabilitated / clinics	rehab works for 5 health facilities, equipments ,furnitures & tools for 9 dispensaries	338,622	128,965	7690	6920
1.1.2.d	families served by rehabilitated /schools	construction of 5 schools & rehab of 6 school facilities			10760	9060
1.1.2.e	families using new / rehab centers	Construction of 2 clubs & one football court			1625	825
<b>Income Generating Activities / Cottage Industry</b>						
1.1.3	clients accessing expanded economic opp.	11 sessions of training on food& marketing techniques& 6 centers	227,614	27,000		522
<b>Communnity Environmental</b>						
<b>1.1.4</b>	<b>Villages implementing environmental management plans</b>				<b>23</b>	<b>18</b>
1.1.4 a	restoration of green cover	reforestation of 9,585 trees	653,226	331,821	19	15
1.1.4 b	environmental protection practices	rehab of 1 spring / public park ,solid waste containers			2	2
1.1.4 c	waste water treatment	3 waste water treatment systems			4	1
1.1.4 d	solid waste treatment	2 solid waste treatment centers			4	1
1.1.4 e	potable water treatment	water source mapping - quality analysis			3	3
1.1.4 f	awareness campaigns / workshops	awareness campaigns / workshops			28	14

Refer to annex B for a listing / Impact Indicator on a project by project basis

## VI- LEVEL OF LOCAL CONTRIBUTIONS / COST-SHARING

Based on our experience, community involvement in project financing is an important indicator of local commitment to, and therefore the long-term sustainability of, a particular development initiative. If a community is both willing and able to make an investment in the project (through direct financing and/or in-kind contributions), then the community will have, in turn, a much greater stake in ensuring the project's continuation once the implementing agency has withdrawn from the project area.

Cost-sharing with the local community occurs on virtually all projects. Local contributions take several forms. Some communities choose to participate through direct financing, while others donate the land on which construction will occur, or donate materials, or provide volunteer or paid labor. The initial project proposed for funding to U.S.AID stated that the capacity of the YMCA to leverage funds locally was around 30%, while the actual cost contribution of the local population on various activities amounted to more than 40% of total project cost. Concurrently, total local contributions constitute on average 40% of project financing but, this figure rises to as much as 75% on some selected projects. The level of local contribution varies according to the type of project being implemented and the socio-economic profile of the concerned community. Some communities and clusters, for example, are more able to mobilize the resources needed for greater cost-sharing in projects.

Up till March 2000 i.e. as a result of thirty months of program operation, the following actions have been identified and approved for funding and execution under the Integrated Rural Development Program:

- 174 actions/projects in the rural infrastructural sector
- 17 actions/projects in the environmental sector
- 3 pilot demonstration farms for agricultural skills training

The total direct cost of the 194 above actions is currently estimated at US\$5,048,118 (100%). An amount of US\$ 3,022,897(60%) was provided through USAID funds to supplement local contributions valued at US\$ 2,025,221 (40%), of which US\$ 764,050 (15%) is the estimated value of donated land and US\$1,261,171 (25%) is the combined value of labor (volunteer and paid) and cash donations.

A summary of projects allocated budget and community local contribution is found below in **Table 8**:

**Table 8: Infrastructure & Environmental Project Cost Contribution  
October 1, 1997-March 31, 2000**

	<b>U.S.\$ Amount</b>	<b>Percentage</b>
<b>USAID Funds</b>	3,022,897	60%
<b>Local Contributions</b>	764,050 (value of land) 1,261,171 (labor & cash)	15% 25%
<b>Total Project Cost</b>	5,048,118	100%

**Breakdown of cost sharing on a project by project basis is found in Annex C enclosed with this report.**

As for the cost contribution in the other sectors of the program such as "Agricultural skills training for women" & "Civic participation" component, the local contribution of the community consisted mainly of providing free of charge, centrally located facilities to house the training workshop activity and/or income-generating center.

## VII. CONCLUSION

Finally, to conclude this report in a short concise manner, we will be quoting a segment of an article which appeared in "Emerging Lebanon 2000" the annual business and political review published by the "Oxford Business Group". At the end of the article, (the full text of the article is enclosed as annex D) the reporter concludes as follows " The YMCA work is especially interesting because it addresses the spectrum of problems in rural areas simultaneously, but its efforts, and those of other NGOs, cannot provide an overall solution at present levels of funding. It does, however, illustrate what kind of wide-scale action might be undertaken were the international community and central government to begin recalling their promises to Lebanese farmers "

The operating context of the program is highly complex and challenging and long-term by nature. Significant further investment on the part of the YMCA is, therefore, crucial if the successes that are starting to be seen now are to be sustained and secured. Perhaps the most important achievement to date is the introduction of the notions of 'community' and 'responsibility'.

## YMCA Integrated Rural Development Program

### Listing of Projects October 1, 1997 - March 31, 2000

Code No.	Cluster	Village	Project Sector	Project Output	Amount \$	Status
RI - A / I - 1	I	Akkar El Attika	Agriculture	3150m of agricultural roads, 1gangway, 1 bridge	24,874	Completed
RI - A / I - 2	I	Akkar El Attika	Agriculture	1820 m long of irrigation canals & 469sq.m of retain walls	22,220	Completed
RI - A / I - 3	I	Koss Akkar	Agriculture	2.500m long of irrigation canals	32,406	Completed
RI - A / VI - 4	VI	Kfeir	Agriculture	3.150m long of agricultural roads, 1 gangway	10,297	Completed
RI - A / III - 5	III	El Ain	Agriculture	2,550m long of irrigation canals	17,210	Completed
RI - A / III - 6	III	El Nabi Ousman	Agriculture	1,200m long of irrigation canals	13,260	Completed
RI - A / IV - 7	IV	Maroun El Ras	Agriculture	2,600m long of agricultural roads	3,120	Completed
RI - A / IV - 8	IV	Bint Jbeil	Agriculture	5,400m long of agricultural roads	11,940	Completed
RI-PW/ IV-9	IV	Aytaroun	Public works	336 m long of drainage canals	5,136	Completed
RI-PW/IV-10	IV	Bint Jbeil	Public works	410 sq.m of road retaining walls	9,654	Completed
RI-HE/IV -11	IV	Bint Jbeil	Health & Educ	Construction of school rainwater reservoir / 150m3 volume	6,942	Completed
RI-A / IV - 12	IV	Aytaroun	Agriculture	12,500m long of agricultural road & 330sq.m of retaining walls	33,092	Completed
RI-PW / I -13	I	Koss Akkar	Public works	Potable water reservoir & 2665 lm networks	22,945	Execution
RI - A / I - 14	I	Koss Akkar	Agriculture	2,500m long of agricultural roads	4,000	Completed
RI - A / I - 15	I	Shakdouf Akkar	Agriculture	1500m long of agricultural roads	8,945	Completed
RI-PW/ VI -16	VI	Tannoura	Public works	Rehabilitation of water source / pump & accessories	11,160	Completed
RI - A / VI - 17	VI	Tannoura	Agriculture	4050m long of agricultural roads	21,295	Completed
RI - A / III - 18	III	Fakiha	Agriculture	400m long of irrigation canals	7,653	Completed
RI - A / III - 19	III	Zaytoun	Agriculture	2,950m long of irrigation canals	41,972	Completed
RI - A / III - 20	III	Jdaidet El Fakiha	Agriculture	3,500m long of irrigation canals	41,559	Completed
RI - A / II - 21	II	Jibrael	Agriculture	700m long of irrigation canals	5,382	Completed
RI - A / VI - 22	VI	Mymess	Agriculture	5,800m long of agricultural roads	4,800	Completed
RI - A / V - 23	V	Sir El Gharbieh	Agriculture	6,400m long of agricultural roads, 1gangway	19,459	Completed
RI - A / V - 24	V	Ksaybeh	Agriculture	2,500m long of agricultural roads	3,800	Completed
RI-PW / V -25	V	Ksaybeh	Public works	1100 m long of drainage canals	23,780	Completed

Code No.	Cluster	Village	Project Sector	Project Output	Amount \$	Status
RI - A / I - 26	I	Aayat	Agriculture	400m long of irrigation canals	4,730	Completed
RI - A / V - 27	V	Adshit	Agriculture	2,000m long of agricultural roads, 1 gangway	3,568	Completed
RI - A / VI - 28	VI	Ain Atta	Agriculture	7,500m long of agricultural roads	13,420	Completed
RI - A / VI - 29	VI	El Khelwat	Agriculture	3,000m long of agricultural roads	10,800	Completed
RI-PW / VI - 30	VI	Mymess	Public works	340m long of drainage canals	4,615	Completed
RI-HE / III - 31	III	Jdaidet El Fakiha	Health & Educ	Construction of one public school	27,002	Completed
RI - A / II - 32	II	Tekrit	Agriculture	4,000m long of agr. roads, 2 gang, 1 bridge, 275sq.m retain. walls	18,320	Completed
RI - A / I - 33	I	Aayat	Agriculture	1750m long of agricultural roads, 3 gang, 30 sq.m retain. walls	3,946	Completed
RI - A / II - 34	II	Jibrael	Agriculture	2,600m long of agr. roads; 7 gangways, 585sq.m retain walls	9,704	Completed
RI - A / II - 35	II	Beit Mellat	Agriculture	1,620 m long of irrigation canals & 60sq.m retain walls	15,395	Completed
RI - A / I - 36	I	Shakdouf Akkar	Agriculture	2,400m long of irrigation canals	24,836	Completed
RI-PW / IV - 37	IV	Ainata	Public works	590sq.m of road retaining walls	14,335	Completed
RI-PW / IV - 38	IV	Bint Jbeil	Public works	515 sq.m retaining walls / village sport facilities	13,800	Completed
RI - A / IV - 39	IV	Blida	Agriculture	4,700m long of agricultural roads	2,820	Completed
RI - A / IV - 40	IV	Mays El Jabal	Agriculture	10,400m long of agricultural roads	6,120	Completed
RI - A / III - 41	III	El Nabi Ousman	Agriculture	2,100m long of irrigation canals	28,987	Completed
RI - A / III - 42	III	El Ain	Agriculture	1,600m long of irrigation canals	13,674	Completed
RI-PW / V - 43	V	Adshit	Public works	Elevated water reservoir 300m <sup>3</sup> capacity	25,747	Completed
RI - A / I - 44	I	Akkar El Attika	Agriculture	600 m long of irrigation canals & 629sq.m retain .wals	10,581	Completed
RI - A / I - 45	I	Akkar El Attika	Agriculture	900m long of irrigation canals	11,565	Completed
RI - A / I - 46	I	Koss Akkar	Agriculture	450m long of irrigation canals	5,178	Completed
RI - A / I - 47	I	Koss Akkar	Agriculture	700m long of irrigation canals	9,270	Completed
RI - A / I - 48	I	Aayat	Agriculture	1,000m long of irrigation canals	8,855	Completed
RI-HE / V - 49	V	Kfarsyr	Health & Educ	Health plan assessment workshop	1,444	Completed
RI - A / VI - 50	VI	Beit Lehya	Agriculture	2100m long of agricultural road	3,600	Completed
RI - A / I - 51	I	Eldawra	Agriculture	1700 m long of irrigation canal	17,778	Completed
RI - A / I - 52	I	Eldawra	Agriculture	500m long of Irrigation canal	4,400	Completed
RI-HE / I - 53	I	Akkar El Attika	Health & Educ	Construction of one secondary level public school	59,375	Completed
RI-PW / III - 54	III	Jdaidet El Fakiha	Public works	Rehabilitation of village potable water networks / 7000 lm	32,874	Completed
RI - A / IV - 55	IV	Bint Jbeil	Agriculture	Rehabilitation of one rainfed pool	28,775	Completed
RI - A / III - 56	III	El Ain	Agriculture	950m long of irrigation canal	11,826	Completed
RI - A / III - 57	III	El Nabi Ousman	Agriculture	750m long of irrigation canals	11,547	Completed
RI-PW / V - 58	V	Kfarsyr	Public works	860 m long of drainage canals	21,780	Completed
RI - A / IV - 59	IV	Aytaroun	Agriculture	1500m long of agricultural roads	4,200	Completed

Code No.	Cluster	Village	Project Sector	Project Output	Amount \$	Status
RI-PW/V - 60	V	Ksaybeh	Public works	Construction of one small bridge	1,450	Completed
RI-PW/V - 61	V	Sir El Gharbieh	Public works	88 sq.m of road retaining walls	1,587	Completed
RI - A /IV - 62	IV	Blida	Agriculture	6500m long of agricultural roads	6,500	Completed
RI-PW/VI- 63	VI	Kfeir	Public works	160m long of drainage canals	3,039	Completed
RI - A / I - 64	I	Koss Akkar	Agriculture	350m long of irrigation canals&70 sq.m retaining walls	5,557	Completed
RI-PW/VI -65	VI	Kfeir	Public works	Equipping of artesian well /submersible pump	3,250	Completed
RI - A / V - 66	V	Kfarsyr	Agriculture	7000m long of agricultural roads	23,420	Completed
RI - A / VI -67	VI	Ain Harsha	Agriculture	3300m long of agricultural roads, 10m retain.walls, 2gangway	5,003	Completed
RI - A / VI- 68	VI	Ain Atta	Agriculture	Construction of one rainfed pool	29,045	Completed
RI - A / III -69	III	El Nabi Ousman	Agriculture	817 m long of irrigations canals	10,885	Completed
RI - A / VI -70	VI	El Khelwat	Agriculture	2000 m long of agricultural roads , 3 gangways	7,650	Completed
RI- A / VI - 71	VI	Ain Harsha	Agriculture	500 m long of agricultural roads,1 bridge.	8,674	Completed
RI - A / IV- 72	IV	Aytaroun	Agriculture	5000 m long of agricultural roads	14,800	Completed
RI-HE / IV-73	IV	Aytaroun	Health & Educ	rehabilitation of school sanitary facilities	672	Completed
RI-PW/IV- 74	IV	Mays El Jabal	Public works	90 sq.m of road retaining walls	2,088	Completed
RI -HE / V -75	V	Kfarsyr	Health & Educ	primary health care workshop	1,905	Completed
RI - A / I - 76	I	Akkar El Attika	Agriculture	1000 m long of agricultural roads	9,850	Completed
RI - A / II - 77	II	Jibrael	Agriculture	1350 m long of agricultural roads &180sq.m of retain walls	5,698	Completed
RI - A / II - 78	II	Beit Mellat	Agriculture	1200 m long of irrigations canals / HDPE lining	17,133	Completed
RI - A / III - 79	III	El Ain	Agriculture	1700 m long of irrigations canals	15,893	Completed
RI - A / III - 80	III	EL Nabi Ousman	Agriculture	1800 m long of irrigations canals / HDPE lining	19,260	Completed
RI-A / VI -81	VI	Tannoura	Agriculture	Construction of one rainfed pool	10,360	Completed
RI -A / V - 82	V	Braykaa'a	Agriculture	400 m long agricultural roads	8,037	Completed
RI -A / IV - 83	IV	Mhaybib	Agriculture	Construction of one rainfed pool	31,452	Completed
RI - A / III -84	III	EL Nabi Ousman	Agriculture	1800 m long of irrigations canals	36,962	Completed
RI - A / III -85	III	El Ain	Agriculture	1000 m long of irrigations canals	12,085	Completed
RI -A / II - 86	II	Tekrit	Agriculture	Rehabilitation of artesian well ; 3000 lm irrigations networks	55,042	Execution
RI- HE/ II -87	II	Dahr el Laysyneh	Health & Educ	Construction of one public school	16,494	Completed
RI-PW / III-88	III	El Ain	Public works	750 sq.m of road retaining walls	14,347	Completed
RI-PW /V -89	V	Sir El Gharbieh	Public works	75 sq.m of road retaining walls	760	Completed
RI-PW / V - 90	V	Jibsheet	Public works	1080 m long of drainage canals	28,388	Completed
RI- PW / V- 91	V	Kfarsyr	Public works	455 sq.m of road retaining walls	9,610	Completed
RI - PW / V-92	V	Jibsheet	Public works	570 sq.m of road retaining walls	18,836	Completed
RI- HE / IV-93	IV	Bint Jbeil	Health & Educ	Construction of rain water reservoir / health facility	3,626	Completed
RI-PW / IV-94	IV	Ain Ebel	Public works	577 sq.m of road retaining walls	27,106	Completed
RI - A / VI- 95	VI	Beit Lehya	Agriculture	1600 m long of agricultural roads &400 sq.m retain.walls	7,694	Completed

Code No.	Cluster	Village	Project Sector	Project Output	Amount \$	Status
RI -PW /VI- 96	VI	Mymess	Public works	520 m long of drainage canals	13,960	Completed
RI -PW / III-97	III	El Nabi Ousman	Public works	517 sq.m of road retaining walls	9,938	Completed
RI - A / III -98	III	El Nabi Ousman	Agriculture	1750 m long of irrigation canals	22,824	Completed
RI - A / III -99	III	El Ain	Agriculture	rehabilitation of two water springs	1,368	Completed
RI- HE / 100'		6 clusters	Health & Educ	Dental hygiene campaign	15,895	Completed
RI-PW/VI-101	VI	Ain Harsha	Public works	Rehab. of 1spring &const of water reservoir 50 m <sup>3</sup> volume	2,887	Completed
RI-A/I-102	I	Akkar El Attika	Agriculture	2500m long of agricultural roads & 4 gangways	6,500	Completed
RI-A/I-103	I	Akkar El Attika	Agriculture	2,100m long of irrigation canals & 160sq.m retaining walls	33,543	Completed
RI-A/I-104	I	Shakdouf Akkar	Agriculture	1,500m long of irrigation canals	12,986	Completed
RI-A/I-105	I	Ayat	Agriculture	Irrigation reservoir & 1500m long of canals & 100 sq.m ret walls	15,303	Completed
RI-A/I-106	I	Akkar El Attika	Agriculture	water reservoir & 1300m long of irrigation canals	24,677	Completed
RI-A/I-107	I	Akkar El Attika	Agriculture	2000m long of irrigation canals	15,490	Completed
RI-A/I-108	I	Akkar El Attika	Agriculture	1200m long of irrigation canals	8,020	Completed
RI-A/V-109	V	braykeh	Agriculture	Construction of a water dam & related pool	22,000	Execution
RI-A/V-110	V	Sir El Gharbieh	Agriculture	2500m long of agricultural roads & one bridge	19,580	Completed
RI-A/V-111	V	Jibsheets	Agriculture	4000 m long of agricultural roads & 2 gangways	7,917	Completed
RI-PW/V-112	V	Ksaybeh	Public works	Rehab. water source & water reservoir	14,904	Completed
RI-A/II-113	II	Rahbeh	Agriculture	1,300m long of irrigation canals	9,650	Completed
RI-A/I-114	I	Koss Akkar	Agriculture	1,200m long of irrigation canals	12,596	Completed
RI-A/II-115	I	El Dawra	Agriculture	1,575m long of irrigation canals	18,097	Completed
RI-A/II-116	II	Rahbeh	Agriculture	2,800m long of agricultural roads & one bridge	8,540	Completed
RI-PW/VI-117	VI	Marj El zouhour	Public works	700m long of drainage canals	7,710	Completed
RI-HE/IV-118	IV	Bint Jbeil	Health & Educ	Rehabilitation of school facilities	14,160	Completed
RI-HE/IV-119	IV	Bint Jbeil	Health & Educ	Rehabilitation of public school /sanitary facility	6,178	Completed
RI-HE/IV-120	IV	Mays El Jabal	Health & Educ	Roofing of school playground facility	6,232	Completed
RI-HE/VI-121	IV	Ain Ebel	Health & Educ	rehabilitation of school sport facility	17,888	Execution
RI-A/VI-122	II	Beit Mellat	Agriculture	Rehabilitation of artesian well & irrigation networks	59,000	Execution
RI-HE/VI-123	VI	Marj El zouhour	Health & Educ	Rehabilitation of dispensary & provision of equipment & tools	8,759	Completed
RI-HE/IV -124	IV	Ain Ebel	Agriculture	Rehabilitation of water source & irrigation pool	13,528	Completed
RI-HE/VI-125	VI	Kfeir	Health & Educ	Rehabilitation of dispensary & provision of equipment & tools	11,793	Completed
RI-HE/ V-126	V	Ksaybeh	Health & Educ	Construction of a youth club facility	30,880	Completed
RI-PW/ I-127	I	Dawra	Public works	potable water reservoir 300 m <sup>3</sup>	11,095	Completed
RI-PW/VI-128	VI	Mymess	Public works	937 sq.m of road retaining walls	14,995	Completed
RI-PW/ V-129	V	Kfarsyr	Public works	installation of 1500 m long of potable water networks	5,000	Completed
RI-HE/VI -130	V	Kfeir	Health & Educ	Construction of a football & multipurpose court	10,601	Completed

Code No.	Cluster	Village	Project Sector	Project Output	Amount \$	Status
RI-HE/ III -131	III	El Nabi ousman	Health & Educ	Extension works for a youth club	18,317	Completed
RI-HE/III & VI-132	III&VI	Bekaa	Health & Educ	training /administrative skills for managing health facilities	2,361	Completed
RI-A/V-133	V	Kfarsyr	Agriculture	rehabilitation of 1750 m long of agricultural roads	11,724	Completed
RI-A/V-134	V	Jibsheet	Agriculture	rehabilitation of three water springs & irrigation reservoir	13,244	Completed
RI-A/V-135	V	Kfarsyr	Agriculture	rehabilitation of 1500 m long of agricultural roads	15,000	Completed
RI-PW/V-136	V	Ksaybeh	Public works	450 m long of drainage canals	10,487	Completed
RI-PW/I-137	I	Shakdouf Akkar	Public works	410 sq.m of road retaining walls	12,955	Completed
RI-PW/ VI-137	VI	Marj El zouhour	Public works	450 sq.m of road retaining walls	11,457	Completed
RI-A/III-139	III	El Nabi ousman	Agriculture	Rehab of irrigation reservoir & 1000 m of irrigation canals	10,375	Execution
RI-A/I-140	I	Akkar el attika	Agriculture	5400 m long of agricultural roads & one bridge	7,961	Execution
RI-HE /II-141	II	Tekrit	Health & Educ	Construction of one public school	27,000	Execution
RI-A/I-142	I	Aayat	Agriculture	500 m long of agricultural roads & retaining walls	8,614	Execution
RI-PW/ IV-143	IV	Bint jbeil	Public works	280 sq.m of road retaining walls	12,122	Execution
RI-PW/ III-144	III	Jdaideh el fakiha	Public works	installation of 4000 m long of potable water networks	7,258	Execution
RI-A/VI-145	VI	Khelwat	Agriculture	Construction of one rainfed pool	15,000	Agreement
RI-A/VI-146	VI	Kfeir	Agriculture	1500 m long of agricultural roads	4,400	Execution
RI-A/VI-147	VI	Mymess	Agriculture	Construction of one rainfed pool	10,500	Agreement
RI-HE /IV-148	IV	Bint jbeil	Health & Educ	Medical equipment for LRC facility	7,300	Completed
RI-HE /I-149	I	Akkar el attika	Health & Educ	workshop / need assesment in educationnal facilities	1,453	Completed
RI-HE /III-150	III	Jdaideh el fakiha	Health & Educ	Extension works for a private free of charge school	8,500	Execution
RI-A /III-151	III	Elnabi ousman	Agriculture	2800 m long of agricultural roads	7,200	Completed
RI-PW/VI-152	VI	Beit Lehya	Public works	592 sq.m of road retaining walls	6,396	Execution
RI-PW/V-153	V	Jibsheet	Public works	687 sq.m of road retaining walls	10,685	Execution
RI-PW/VI-154	VI	Ain atta	Public works	1000 m long of drainage canals	7,306	Agreement
RI-HE /VI-155	VI	Tannoura cluster	Health & Educ	Furnishing of equipment & tools for 3 dispensaries	10,640	Completed
RI-HE /III-156	III	Elain cluster	Health & Educ	Furnishing of equipment & tools for 2 dispensaries	7,354	Completed
RI-PW/II-157	II	Rahbeh	Public works	installation of 750m long of potable water networks	4,280	Completed
RI-A /IV-158	IV	Ainata	Agriculture	3250 m long of agricultural roads	3,250	Agreement
RI-A /IV-159	IV	Aytaroun	Agriculture	3000 m long of agricultural roads	15,000	Agreement
RI-PW/V-160	V	Kfarsyr	Public works	800 sq.m of road retaining walls	8,778	Execution
RI-A /I-161	I	Dawra	Agriculture	4500 m long of agricultural roads	12,540	Execution
RI-HE /VI-162	VI	Tannoura cluster	Health & Educ	Technical training for dispensaries personal	1,351	Completed
RI-HE /II 163	II	Rahbeh	Health & Educ	Medical equipment for health facility	7,000	Completed
RI-PW/VI-164	VI	Tannoura	Public works	475 sq.m of road retaining walls	6,800	Agreement
RI-A /II-165	II	Dahr el laysineh	Agriculture	2000 m long of agricultural roads	5,600	Agreement

Code No.	Cluster	Village	Project Sector	Project Output	Amount \$	Status
RI-A /I-166	I	Shakdouf Akkar	Agriculture	1500 m long of agricultural roads	3,300	Agreement
RI-A /VI-167	VI	Mymess	Agriculture	Rehabilitation of one water source	23,000	Agreement
RI-A /II-168	II	Rahbeh	Agriculture	1200 m long of irrigation canals	12,000	Agreement
RI-HE/VI- 169	VI	Khelwat	Health & Educ	Rehabilitation of one health facility	2,500	Execution
RI -PW/III-170	III	EL Nabi Ousman	Public works	Construction of one bridge	8,500	Agreement
RI-PW/ III-171	III	Jdaideh el fakiha	Public works	Topographie works for road	5,000	Agreement
RI-PW/ III-172	III	Jdaideh el fakiha	Public works	Construction of two potable water reservoirs	25,000	Agreement
RI-A /IV-173	IV	Ainata	Agriculture	Construction of one rainfed pool	15,000	Agreement
RI-HE /III-174	III	EL Nabi Ousman	Health & Educ	Rehabilitation of one health facility	5,000	Agreement
	II	Jibrael	Agriculture	Agriculture demonstration plot / skills training	27,427	On going
	I	Akkar El Attika	Agriculture	Prototype farm / dwarf fruit trees & agricultural skills training	17,152	On going
	III	EL Ain	Agriculture	Prototype farm / dwarf fruit trees & agricultural skills training	14,146	On going
	V	Kfarsyr Cluster	Agriculture	agricultural skills training / olive production & pest control	500	Completed
	VI	Tannoura Cluster	Agriculture	agricultural skills training / olive production & pest control	518	Completed
<b>Total Rural Infrastructure</b>					<b>U.S.\$</b>	<b>2,369,671</b>
EM / I - 1	I	Akkar El Attika	Environment	One waste water management system	53,904	Completed
EM / VI - 2	VI	Tannoura Cluster	Environment	Reforestation of 2485 trees - related irrigation facilities	12,928	Completed
EM / V - 3	V	Sir El Gharbieh	Environment	Workshop on solid waste management	2,609	Completed
EM / II - 4	II	Tekrit	Environment	Solid waste containers	2,000	Completed
EM / I - 5	I	Koss Akkar	Environment	One waste water management system	110,000	Execution
EM / V - 6	V	Kfarsyr Cluster	Environment	solid waste treatment center	160,000	Agreement
EM / V - 7	V	Kfarsyr Cluster	Environment	Reforestation of 1800 trees -related irrigation facilities	5,725	Completed
EM / I - 8	I	Akkar Cluster	Environment	Reforestation of 1000 trees	3,206	Completed
EM / VI - 9	VI	Kfeir	Environment	One waste water management system	118,000	Agreement
EM / II - 11	II	Jibrael	Environment	solid waste treatment center	3,629	Cancelled
EM / IV -12	IV	Bint Jbeil	Environment	Reforestation of 1700 trees	6,375	Completed
EM /V -13	V	Kfarsyr	Environment	Rehabilitation of one spring & public park	4,759	Completed
EM/VI-14	VI	Tannoura Cluster	Environment	water source mapping-quality analysis	633	Execution
EM / V -15	V	Kfarsyr Cluster	Environment	solid waste treatment center	99,298	Completed
EM / VI -16	VI	Kfeir	Environment	Reforestation & environmental activities	20,160	Execution
EM / VI -17		All Clusters	Environment	Environmental activities	50,000	Agreement
<b>Total Environmental activities</b>					<b>U.S.\$</b>	<b>653,226</b>
<b>TOTAL Rural &amp; Environmental Infrastructure</b>					<b>U.S \$</b>	<b>3,022,897</b>

## YMCA Integrated Rural Development Program

### Summary Table : Infrastructure - Agricultural Sector

#### Activity Progress Report -Impact Indicator

October 1, 1997 - March 31, 2000

Cluster	Indicator	Project Output	Amount US \$	Contribution. US\$	Planned	Actual to date
I- Akkar El Attika	1.1.1.b	24,300 m long of agricultural roads, 4 gangways	405,770	250,976	637	493
	1.1.1.c	2 bridges, 1958 sq.m retaining walls, prototype farm & skills train.			240	20
	1.1.1.a	24,295m long of irrigation canals, 2 irrigation reservoirs			309	89
	1.1.1.d				389	389
II- Tekrit	1.1.1.b	12,750m long of agricultural roads, demonstration plot & training	248,891	194,163	74	59
	1.1.1.c	9 gangways, 2 bridges, 1350sq.m retaining walls			105	33
	1.1.1.a	17,620 m long of irrigation canals, rehabilitation of 2 artesian wells			120	58
	1.1.1.d				80	50
III- El Ain	1.1.1.b	2,800 m long of agricultural roads	338,686	129,721	20	20
	1.1.1.c				15	-
	1.1.1.a	25,667 m long of irrigation canals , prototype farm & training			172	132
	1.1.1.d	rehabilitation of 2 water sources & irrigation reservoir			215	203
IV- Bint Jbeil	1.1.1.b	52,850 m long of agricultural roads, 330 sq.m of retaining walls	189,597	170,800	1020	990
	1.1.1.c				1200	144
	1.1.1.a	3 rainfed pools, rehabilitation of one source & irrigation reservoir			235	265
	1.1.1.d				110	60
V- Kfarsyr	1.1.1.b	28,450m long of agricultural roads, 4 gangways, 1 bridge, agric training	148,249	191,311	331	331
	1.1.1.c				191	48.4
	1.1.1.a	Rehab. of 3 watersprings & irrigation reservoir, construction of a water dam & related			21.5	1.5
	1.1.1.d	pool			3	3
VI- Tannoura	1.1.1.b	34,500 m long of agricultural roads, 6 gangways	186,056	283,700	364	364
	1.1.1.c	1 bridge, 766 sq.m retaining walls & agricultural training			158	50.7
	1.1.1.a	four rainfed pools & rehab of source & 1200 m long of canals			90	20
	1.1.1.d				3	
Total	1.1.1.b	155,650 m long of agricultural roads, 23 gangways	1,517,249	1,220,671	2446	2257
	1.1.1.c	6 bridges, 4,404 sq.m retain walls, 3 Prototype farms & 14 sessions of skills train.			1909	296
	1.1.1.a	68,782 m long of irrig canals, 5 irrig reservoirs & one dam			947.5	565.5
	1.1.1.d	7 water sources, 8 rainfed pools, rehab. of 2 artesian wells			800	705

# YMCA Integrated Rural Infrastructure Development

## Social Infrastructure Sector & Relative Indicators

October 1, 1997 - March 31, 2000

Cluster	Village	Indicator	Project Output	Amount US\$	Contrib US\$	Status	Planned	Actual to Date
I	Dawra	1.1.2 a	potable water tank / 300 m3 capacity	11,095	6,500	completed	335 families	335
I	Koss Akkar	1.1.2 a	Potable water tank & 2665 m networks	22,945	8,300	execution	53 families*	0
I	Shakdouf Akkar	1.1.2. f	410 sq.m of road retaining walls	12,955	7,333	completed	100 families	100
II	Rahbeh	1.1.2 a	750 m long of potable water networks	4,280	1,750	completed	1100 families	1100
III	El Ain	1.1.2. f	750 sq.m of road retaining walls	14,347	2,667	completed	1000 families	1000
III	El Nabi Ousman	1.1.2. f	517 sq.m of road retaining walls	9,938	6,000	completed	500 families	500
III	Jdaidet El Fakiha	1.1.2 a	7000 m long of potable water networks	32,874	14,100	completed	865 families*	865
III	Jdaidet El Fakiha	1.1.2 a	4000 m long of potable water networks	7,258	5,000	execution	300 families *	-
III	Jdaidet El Fakiha	1.1.2 a	2 potable water tanks / 300 m^3 capacity	25,000	13,000	agreement	1850 families *	-
III	Jdaidet El Fakiha		Topographie works for road	5,000	-	agreement	-	-
III	ELNabiOsman	1.1.2 f	Construction of one bridge	8,500	3,000	agreement	500 families *	-
IV	Ain Ebel	1.1.2. f	577sq.m of road retaining walls	27,106	9,000	completed	200 families *	200*
IV	Ainata	1.1.2. f	590 sq.m of road retaining walls	14,335	7,000	completed	200 families	200
IV	Aytaroun	1.1.2. f	336 m long of drainage canals	5,136	3,500	completed	700 families	700
IV	Bint Jbeil	1.1.2. f	410 sq.m of road retaining walls	9,654	6,029	completed	1200 families	1,200
IV	Bint Jbeil	1.1.2. f	515 sq.m of road retaining walls	13,800	61,000	completed	200 families *	200*
IV	Bint Jbeil	1.1.2. f	280 sq.m of road retaining walls	12,122	4,600	completed	200 families *	200*
IV	Mays el Jabal	1.1.2. f	90 sq.m of road retaining walls	2,088	950	completed	200 families *	200*
V	Adshit	1.1.2 a	Elevated water tank 300m3 capacity	25,747	35,850	completed	350 families	350
V	Jibsheets	1.1.2. f	1080 m long of drainage canals	28,388	15,300	completed	1000 families*	1000*
V	Jibsheets	1.1.2. f	570 sq.m of road retaining walls	18,836	9,500	completed	1000 families	1000
V	Jibsheets	1.1.2. f	687 sq.m of road retaining walls	10,685	5,000	execution	200 families *	-
V	Kfarsyr	1.1.2. f	860 m long of drainage canals	21,780	14,900	completed	600 families	600
V	Kfarsyr	1.1.2. f	455 sq.m of road retaining walls	9,610	5,000	completed	200 families*	200*
V	Kfarsyr	1.1.2 a	1500 m long of potable water networks	5,000	4,000	completed	30 families*	30*
V	Kfarsyr	1.1.2. f	800 sq.m of road retaining walls	8,778	16,500	execution	200 families*	-
V	Ksaybeh	1.1.2. f	1100 m long of drainage canals	23,780	12,000	completed	93 families*	93*
V	Ksaybeh	1.1.2. f	Construction of one small bridge	1,450	700	completed	150 families*	150*
V	Ksaybeh	1.1.2 a	Rehab.of water source & reservoir	14,904	16,600	completed	400 families	400
V	Ksaybeh	1.1.2. f	450 m long of drainage canals	10,487	3,150	completed	100 families *	100*
V	Sir el Gharbieh	1.1.2. f	88 sq.m of road retaining walls	1,587	700	completed	50 families*	50*
V	Sir el Gharbieh	1.1.2. f	75 sq.m of road retaining walls	760	700	completed	300 families	300

## YMCA Integrated Rural Infrastructure Development

### Social Infrastructure Sector & Relative Indicators

October 1, 1997 - March 31, 2000

Cluster	Village	Indicator	Project Output	Amount US\$	Contrib US\$	Status	Planned	Actual to Date
VI	Ain Harsha	1.1.2 a	Rehabilitation of one spring & construction of water reservoir	2,887	800	completed	200 families	200
VI	Ain Atta	1.1.2. f	1000m long of drainage canals	7,306	4,200	agreement	400 families	-
VI	Kfeir	1.1.2. f	160m long of drainage canals	3,039	1,820	completed	50 families*	50*
VI	Kfeir	1.1.2 a	Equipping of one artesian well /submersible pump	3,250	1,410	completed	325 families	325
VI	Marj El zohour	1.1.2. f	700m long of drainage canals	7,710	4,000	completed	200 families	200
VI	Marj El zohour	1.1.2. f	500 sq.m of road retaining walls	11,457	7,000	completed	150 families*	150*
VI	Mymess	1.1.2. f	340m long of drainage canals	4,615	2,355	completed	38 families*	38*
VI	Mymess	1.1.2. f	520 m long of drainage canals	13,960	7,500	completed	300 families	300
VI	Mymess	1.1.2. f	937 sq.m of road retaining walls	14,995	5,000	completed	200 families*	200*
VI	Tannoura	1.1.2 a	rehabilitation of water source / pump accessories	11,160	2,300	completed	150 families	150
VI	Tannoura	1.1.2. f	475 sq.m of road retaining walls	6,800	3,000	agreement	150 families *	-
VI	Beit Lehya	1.1.2. f	592 sq.m of road retaining walls	6,396	4,750	execution	100 families	-
<b>Total</b>	1.1.2 a	7 potable water tanks & reservoirs , 2 pumps, rehab .of 3 water sources , 16 km long of potable water networks		513,800	343,764		5958 fam	3755 fam
	1.1.2. f	6, 546 m long of drainages canals 9, 318 sq.m of road retain walls, 2 bridges					10481 fam	8931 fam

\* double counted

## YMCA Integrated Rural Infrastructure Development

### Social Infrastructure Sector & Relative Indicators

October 1, 1997 - March 31, 2000

Cluster	Village	Indicator	Project Output	Amount US\$	Contrib US\$	Status	Planned	Actual to Date
I	Akkar el Attika	1.1.2 d	Construction of secondary level public school	59,375	13,500	Completed	2000 fam / 500students	2000 fam / 500students
I	Akkar el Attika		workshop/need assesment in educational facilities	1,453	150	Completed	-	-
II	Dahr el Laysyneh	1.1.2 d	Construction of one public school	16,494	7,000	Completed	60 fam/ 60 students	60 fam/ 60 students
II	Tekrit	1.1.2 d	Construction of one public school	27,000	15,000	Execution	1000 fam/ 157 students	-
II	Rahbeh	1.1.2 c	Medical equipment for health facility	7,000	7,000	Completed	1100 families*	1100 families*
III	Jdaidet El Fakiha	1.1.2 d	Construction of one public school	27,002	8,500	Completed	700 fam* / 120students	700 fam* / 120students
III	Jdaidet El Fakiha	1.1.2 d	Extension works for a private free of charge school	8,500	5,000	Execution	700 fam* / 140students	-
III	El Nabi Ousman	1.1.2 c	Rehabilitation of one health facility	5,000	2,000	agreement	500 families*	-
III	El Nabi Ousman	1.1.2 e	Extension works for a youth club	18,317	10,000	Completed	500 families*	500 families*
III	EIAin Cluster	1.1.2 c	Furnishing of equipment& tools for 2 dispensaries Jdaideh & Fakiha	7,354	-	Completed	1850 families	1850 families
IV	Bint Jbeil	1.1.2 d	Construction of school rainwater reservoir/ 150m3 volume	6,942	4,050	Completed	1200 fam*/180 students	1200 fam* /180students
IV	Bint Jbeil	1.1.2 c	Construction of rainwater reservoir - health facilities	3,626	1,800	Completed	1200 families*	1200 families*
IV	Bint Jbeil	1.1.2 d	Rehabilitation of public school/ sanitary facilities	6,178	5,000	Completed	1200 fam*/350 students	1200 fam*/350 students
IV	Bint Jbeil	1.1.2 d	Rehabilitation of school facilities	14,160	3,540	Completed	1200 fam*/335 students	1200 fam*/335 students
IV	Bint Jbeil	1.1.2 c	Medical equipment for LRC facility	7,300	6,700	Completed	1200 families*	1200 families*
IV	Aytaroun	1.1.2 d	Construction of school sanitary facilities	672	175	Completed	1000 fam*/ 98 students	1000 fam*/ 98 students
IV	Mays El Jabal	1.1.2 d	Roofing of school playground facility	6,232	1,400	Completed	1000 fam*/200students	1000 fam/200 students
IV	Ain Ebel	1.1.2 d	Rehabilitation of school sport facility	17,888	13,500	Execution	700 fam* /120students	700 fam /120students
V	Ksaybeh	1.1.2 e	Construction of one youth club	30,880	10,000	Execution	800 families	-
V	Kfarsyr	-	health plan assesment workshop	1,444	150	Completed	-	-
V	Kfarsyr	-	primary health workshop	1,905	150	Completed	-	-

## YMCA Integrated Rural Infrastructure Development

### Social Infrastructure Sector & Relative Indicators

October 1, 1997 - March 31, 2000

Cluster	Village	Indicator	Project Output	Amount US\$	Contrib US\$	Status	Planned	Actual to Date
VI	Kfeir	1.1.2 c	Rehabilitation of one dispensary & provision of equipment	11,794	4,000	Completed	325 families*	325 families*
VI	Kfeir	1.1.2 e	Construction of a football & multi purpose court	10,601	8,000	Completed	325 families*	325 families*
VI	Marj el zouhour	1.1.2 c	Rehabilitation of one dispensary & provision of equipment	8,758	1,350	Completed	200 families*	200 families*
VI	Elkhelwat	1.1.2 c	Rehabilitation of one dispensary	2,500	1,000	agreement	270 families	-
VI	Tannoura Cluster	1.1.2 c	Furnishing of equipment & tools for 3 dispensaries Ain Atta , Mymess , Elkhelwat	10,640	-	Completed	1045 families	1045 families
	III&VI	-	Technical training for dispensary personnel	1,351		Completed	-	-
	III&VI	-	training / administrative skills for managing health facility	2,361	-	Completed	-	-
	All Clusters	-	Dental hygien campaign	15,895	-	Completed	-	-
Total	1.1.2 c	rehabilitation works for 5 health facilities, equipments, furnitures & tools for 9 dispensaries		338,622	128,965		7690 families	6920 families
	1.1.2 d	const of 5 schools & rehab.of 6 school facilities					10760 fam /2260 stud	9060 fam /1963 stud
	1.1.2 e	construction of 2 clubs & one football court					1625 families	825 families

\* double counted

## YMCA Integrated Rural Development Program

### Agricultural Income Generation for Women & Relative Indicator

October 1, 1997 - March 31, 2000

#### 1.1.3 Clients accessing expanded economic opportunities

<i>Cottage Industry training session</i>						
Cluster	Village	Project Output	Amount US\$	Contrib US\$	Status	Trainees Nb
I	Akkar El Attika	Training /food preservation and marketing techniques	8,125	1,000	Completed	43
I	Koss Akkar	Training /food preservation and marketing techniques	8,501	1,000	Completed	30
II	Tekrit	Training /food preservation and marketing techniques	7,291	1,000	Completed	49
II	Jibrael	Training /food preservation and marketing techniques	5,441	1,000	Completed	27
III	El Ain	Training /food preservation and marketing techniques	9,542	1,000	Completed	42
III	Fakiha	Training /food preservation and marketing techniques	7,740	1,000	Completed	25
V	Ksaybeh	Training /food preservation and marketing techniques	11,444	1,000	Completed	38
V	Kfarsyr	Training /food preservation and marketing techniques	13,365	1,000	Completed	41
VI	Ain Atta	Training /food preservation and marketing techniques	8,952	1,000	Completed	42
VI	Ain Atta	Training /food preservation and marketing techniques	7,257	1,000	Completed	57
VI	Beit Lehya	Training /food preservation and marketing techniques	13,700	1,000	Completed	31
<i>Income Generating Centers</i>						
II	Tekrit	Tekrit Food Processing / Solar drying Center	18,000	2,500	Agreement	12
III	ElAin Center	El Ain Crop Drying Center,solar dryer furnishings, equipments,ustensils	25,000	3,000	On going	15
III	Fakiha	Fakiha Food processing / Trout Smoking Center	25,000	4,000	Agreement	12
V	Kosaybeh Center	Ksaybeh Distilling & Food Processing Center	13,257	3,000	Ongoing	14
VI	Kfeir	Kfeir Beekeeping & Honey Production Center	25,000	7,500	On going	32
VI	Khelwat	Khelwat Food Processing / Olive Bottling Center	20,000	3,000	Agreement	12
<b>Total</b>		<b>11 sessions of training on food preservation &amp;marketing techniques &amp; 6 Production Centers .</b>	<b>227,614</b>	<b>27,000</b>		<b>522</b>

**YMCA Integrated Rural Development Program**  
**Environmental Sector And Relative Indicators**

October 1,1997 - March 31 , 2000

Village	Indicator	Nb of Villages	Project Output	Amount US \$	Contribution US\$	Status	Planned	Actual to date
Akkar el Attika	1.1.4 c&f	1	One waste water treatment system	53,904	26,000	Completed	1 (c&f)	1 (c)
Koss Akkar	1.1.4 c&f	1	One waste water treatment system	110,000	21,000	Execution	1 (c&f)	-
Akkar Cluster	1.1.4 a&f	1	Reforestation of 1000 trees	3,206	1,000	Completed	1 (a&f)	1 (a&f)
Tekrit	1.1.4 b	1	Solid waste containers	2,000	-	Completed	1 (b)	1 (b)
Jibrael	1.1.4 d&f		Solid waste treatment center	3,629	10,000	Cancelled	-	-
Bint Jbeil Cluster	1.1.4 a	7	Reforestation of 1700 trees	6,375	2,175	Completed	7 (a)	7 (a)
Sir El Gharbieh	1.1.4 f	5	Workshop on solid waste management	2,609	300	Completed	5 (f)	5 (f)
Kfarsyr Cluster	1.1.4 a&f	3	Reforestation of 1800 trees	5,725	2,266	Completed	3 (a&f)	3 (a&f)
Kfarsyr	1.1.4 b	1	Rehabilitation of one spring & public park	4,759	2,150	Completed	1 (b)	1 (b)
Kfarsyr	1.1.4 d&f	1	Solid waste treatment center	99,298	20,000	Completed	1 (d&f)	1 (d&f)
Kfarsyr Cluster	1.1.4 d&f	3	Solid waste treatment center	160,000	84,600	Agreement	3 (d&f)	-
Tannoura Cluster	1.1.4 a&f	4	Reforestation of 2485 trees	12,928	2,330	Completed	4 (a&f)	4 (a&f)
Tannoura Cluster	1.1.4 e&f	3	water source mapping and quality analysis	633	-	Execution	3 (e&f)	3 (e)
Tannoura Cluster	1.1.4 a&f	4	Reforestation of 2600 trees & environmental activities	20,160	2,000	Execution	4 (a&f)	-
Kfeir	1.1.4 c&f	2	One waste water treatment system	118,000	158,000	Agreement	2 (c&f)	-
All Clusters			Environmental Activities	50,000		Agreement		
Total	1.1.4 a	23	reforestation of 9,585 trees	653,226	331,821		19	15
	1.1.4 b		rehab.of 1 spring/public park, solid waste containers				2	2
	1.1.4 c		3 waste water treatment systems				4	1
	1.1.4 d		2 solid waste treatment centers				4	1
	1.1.4 e		water source mapping and quality analysis				3	3
	1.1.4 f		awareness campaign/ workshop				28	14

## YMCA Integrated Rural Development Program

### Listing of Projects Cost Sharing

October 1, 1997 , March 31, 2000

Code No.	Village	Project type	AID US\$ funds	Local Contribution			Total Cost US \$
				Land	Labor & Cash	Total \$	
RI-A/I-1	Akkar El Attika	Agricultural roads	24,874	31,000	6,600	37,600	62,474
RI-A/I-2	Akkar El Attika	Irrigation canals	22,220		6,200	6,200	28,420
RI-A/I-3	Koss Akkar	Irrigation canals	32,406		16,334	16,334	48,740
RI-A/VI-4	Kfeir	Agricultural roads	10,297	15,000	500	15,500	25,797
RI-A/III-5	El Ain	Irrigation canals	17,210		16,450	16,450	33,660
RI-A/III-6	El Nabi Ousman	Irrigation canals	13,260		12,800	12,800	26,060
RI-A/IV-7	Maroun El Ras	Agricultural roads	3,120	6,400		6,400	9,520
RI-A/IV-8	Bint Jbeil	Agricultural roads	11,940	13,600		13,600	25,540
RI-PW/IV-9	Aytaroun	Drainage canals	5,136		3,500	3,500	8,636
RI-PW/IV-10	Bint Jbeil	Public works	9,654		6,029	6,029	15,683
RI-HE/IV-11	Bint Jbeil	Water tank	6,942		4,050	4,050	10,992
RI-A/IV-12	Aytaroun	Agricultural roads	33,092	16,800	5,200	22,000	55,092
RI-PW/I-13	Koss Akkar	Potable water	22,945		8,300	8,300	31,245
RI-A/I-14	Koss Akkar	Agricultural roads	4,000	5,000		5,000	9,000
RI-A/I-15	Shakdouf Akkar	Agricultural roads	8,945	23,600	1,000	24,600	33,545
RI-PW/VI-16	Tannoura	Potable water	11,160		2,300	2,300	13,460
RI-A/VI-17	Tannoura	Agricultural roads	21,295	32,400		32,400	53,695
RI-A/III-18	Fakiha	Irrigation canals	7,653		2,000	2,000	9,653
RI-A/III-19	Zaytoun	Irrigation canals	41,972		20,650	20,650	62,622
RI-A/III-20	Jdaidet El Fakiha	Irrigation canals	41,559		12,250	12,250	53,809
RI-A/II-21	Jibrael	Irrigation canals	5,382		2,530	2,530	7,912
RI-A/VI-22	Mymess	Agricultural roads	4,800	61,200		61,200	66,000
RI-A/V-23	Sir El Gharbieh	Agricultural roads	19,459	64,000	1,000	65,000	84,459
RI-A/V-24	Ksaybeh	Agricultural roads	3,800	32,000		32,000	35,800
RI-PW/V-25	Ksaybeh	Drainage canals	23,780		12,000	12,000	35,780
RI-A/I-26	Aayat	Irrigation canals	4,730		1,600	1,600	6,330
RI-A/V-27	Adshit	Agricultural roads	3,568	5,600	500	6,100	9,668

Code No.	Village	Project type	AID US\$ funds	Local Contribution			Total Cost US \$
				Land	Labor &Cash	Total \$	
RI-A/VI-28	Ain Atta	Agricultural roads	13,420	36,000		36,000	49,420
RI-A/VI-29	El Khelwat	Agricultural roads	10,800	44,000		44,000	54,800
RI-PW/VI-30	Mymess	Drainage canals	4,615		2,355	2,355	6,970
RI-HE/III-31	Jdaidet El Fakiha	health & education	27,002		8,500	8,500	35,502
RI-A/II-32	Tekrit	Agricultural roads	18,320	48,000	10,500	58,500	76,820
RI-A/I-33	Aayat	Agricultural roads	3,946	21,000	1,000	22,000	25,946
RI-A/II-34	Jibrael	Agricultural roads	9,704	45,600	2,333	47,933	57,637
RI-A/II-35	Beit Mellat	Irrigation canals	15,395		5,000	5,000	20,395
RI-A/I-36	Shakdouf Akkar	Irrigation canals	24,836		11,000	11,000	35,836
RI-PW/IV-37	Ainata	Retaining walls	14,335		7,000	7,000	21,335
RI-PW/IV-38	Bint Jbeil	Retaining walls	13,800		61,000	61,000	74,800
RI-A/IV-39	Blida	Agricultural roads	2,820	18,800		18,800	21,620
RI-A/IV-40	Mays El Jabal	Agricultural roads	6,120	21,000		21,000	27,120
RI-A/III-41	El Nabi Ousman	Irrigation canals	28,987		7,000	7,000	35,987
RI-A/III-42	El Ain	Irrigation canals	13,674		3,040	3,040	16,714
RI-PW /V-43	Adshit	Potable water	25,747	750	35,100	35,850	61,597
RI-A/I-44	Akkar El Attika	Irrigation canals	10,581		5,000	5,000	15,581
RI-A/I-45	Akkar El Attika	Irrigation canals	11,565		4,000	4,000	15,565
RI-A/I-46	Koss Akkar	Irrigation canals	5,178		2,000	2,000	7,178
RI-A/I-47	Koss Akkar	Irrigation canals	9,270		3,200	3,200	12,470
RI-A/I-48	Aayat	Irrigation canals	8,855		2,900	2,900	11,755
RI-HE/I-49	Kfarsyr	health & education	1,444		150	150	1,594
RI-A/VI-50	Beit Lehya	Agricultural roads	3,600	9,600		9,600	13,200
RI-A/I-51	ElDawra	Irrigation canals	17,778		6,000	6,000	23,778
RI-A/I-52	ElDawra	Irrigation canals	4,400		1,200	1,200	5,600
RI-HE/I-53	Akkar El Attika	Health & Educ	59,375		13,500	13,500	72,875
RI-PW/III-54	Jdaidet El Fakiha	Potable water	32,874		14,100	14,100	46,974
RI-A/IV-55	Bint Jbeil	Rainfed pool	28,775		14,500	14,500	43,275
RI-A/IV-56	El Ain	Irrigation canals	11,826		3,800	3,800	15,626
RI-A/III-57	El Nabi Ousman	Irrigation canals	11,547		4,970	4,970	16,517
RI-PW/IV-58	Kfarsyr	Drainage canals	21,780		14,900	14,900	36,680
RI-A/IV-59	Aytaroun	Agricultural roads	4,200	6,000		6,000	10,200
RI-PW/V-60	Ksaybeh	Bridge	1,450		700	700	2,150

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Code No.	Village	Project type	AID US\$ funds	Local Contribution			Total Cost US \$
				Land	Labor & Cash	Total \$	
RI-PW/V-61	Sir El Gharbieh	Retaining walls	1,587		700	700	2,287
RI-A/IV-62	Blida	Agricultural roads	6,500	13,000		13,000	19,500
RI-PW/VI-63	Kfeir	Drainage canals	3,039		1,820	1,820	4,859
RI-A/I-64	Koss Akkar	Irrigation canals	5,557		1,850	1,850	7,407
RI-PW/VI-65	Kfeir	Submersible pump	3,250		1,410	1,410	4,660
RI-A/V-66	Kfarsyr	Agricultural roads	23,420		7,920	7,920	31,340
RI-A/VI-67	Ain Harsha	Agricultural roads	5,003	6,600	2,650	9,250	14,253
RI-AVI-68	Ain Atta	Rainfed Pool	29,045		12,900	12,900	41,945
RI-A/III-69	EL Nabi Ousman	Irrigation canals	10,885		6,822	6,822	17,707
RI-A/VI-70	El Khelwat	Agricultural roads	7,650	8,000	600	8,600	16,250
RI-A/VI-71	Ain Harsha	Agricultural roads	8,674		3,500	3,500	12,174
RI-A/IV-72	Aytaroun	Agricultural roads	14,800	20,000		20,000	34,800
RI-A/IV-73	Aytaroun	Health & Educ	672		175	175	847
RI-PW/IV-74	Mays El Jabal	Retaining walls	2,088		950	950	3,038
RI-HE / V-75	Kfarsyr	health & education	1,905		150	150	2,055
RI-A / I-76	Akkar El Attika	Agricultural roads	9,850		2,667	2,667	12,517
RI-A / II-77	Jibrael	Agricultural roads	5,698	8,100	1,750	9,850	15,548
RI-A / II-78	Beit mellat	Irrigation canals	17,133		3,000	3,000	20,133
RI-A/ III-79	EL Ain	Irrigation canals	15,893		2,333	2,333	18,226
RI-A / III-80	El Nabi Ousman	Irrigation canals	19,260		2,000	2,000	21,260
RI-A/ VI-81	Tannoura	Rainfed Pool	10,360		3,000	3,000	13,360
RI-A /V-82	Braykaa	Agricultural roads	8,037		2,500	2,500	10,537
RI-A/IV-83	Mhaybib	Rainfed pool	31,452		9,000	9,000	40,452
RI-A / III-84	EL Nabi Ousman	Irrigation canals	36,962		12,000	12,000	48,962
RI-A/ III-85	EL Ain	Irrigation canals	12,085		5,133	5,133	17,218
RI-A/II-86	Tekrit	Irrigation networks	55,042		16,550	16,550	71,592
RI-HE / II-87	Dahr el laysyneh	health & education	16,494		7,000	7,000	23,494
RI-PW /III-88	EL Ain	Retaining walls	14,347		2,667	2,667	17,014
RI-PW /V-89	Sir el Gharbieh	Retaining walls	760		700	700	1,460
RI-PW /V-90	Jibsheets	Drainage canals	28,388		15,300	15,300	43,688
RI-PW /V-91	Kfarsyr	Retaining walls	9,610		5,000	5,000	14,610
RI-PW /V-92	Jibsheets	Retaining walls	18,836		9,500	9,500	28,336
RI-HE/IV-93	Bint Jbeil	Health & Educ	3,626		1,800	1,800	5,426

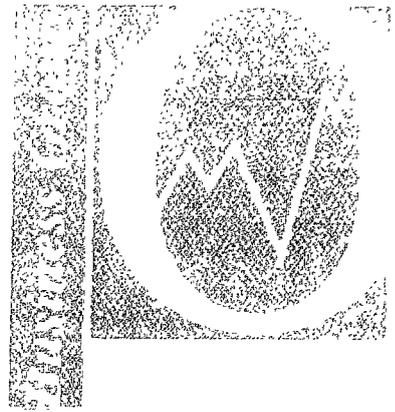
Code No.	Village	Project type	AID USS funds	Local Contribution			Total Cost US \$
				Land	Labor &Cash	Total \$	
RI-PW /V-94	Ain ebel	Retaining walls	27,106		9,000	9,000	36,106
RI-A/VI-95	Beit Lehya	Agricultural roads	7,694	5,500		5,500	13,194
RI -PW/VI-96	Mymess	Drainage canals	13,960		7,500	7,500	21,460
RI -PW/III-97	EL Nabi Ousman	Retaining walls	9,938		6,000	6,000	15,938
RI -A /III - 98	EL Nabi Ousman	Irrigation canals	22,824		6,673	6,673	29,497
RI - A /III -99	El Ain	water spring	1,368		300	300	1,668
RI-HE/ 100	All clusters	Health & Educ	15,895		-	-	15,895
RI-PW/VI-101	Ain Harsha	spring &reservoir	2,887		800	800	3,687
RI-A/I-102	Akkar El Attika	Agricultural roads	6,500	10,000		10,000	16,500
RI-A/I-103	Akkar El Attika	Irrigation canals	33,543		13,500	13,500	47,043
RI-A/I-104	Shakdouf Akkar	Irrigation canals	12,986		5,000	5,000	17,986
RI-A/I-105	Aayat	Irrigation canals	15,303		5,100	5,100	20,403
RI-A/I-106	Akkar El Attika	Irrigation canals	24,677		7,000	7,000	31,677
RI-A/I-107	Akkar El Attika	Irrigation canals	15,490		6,500	6,500	21,990
RI-A/I-108	Akkar El Attika	Irrigation canals	8,020		3,200	3,200	11,220
RI-A/V-109	Braykaa	Agriculture	22,000		7,000	7,000	29,000
RI-A/V-110	Sir el Gharbieh	Agricultural roads	19,580		4,400	4,400	23,980
RI-A/V-111	Jibsheets	Agricultural roads	7,917		3,391	3,391	11,308
RI-PW/V-112	Ksaybeh	spring & reservoir	14,904		16,600	16,600	31,504
RI-A/II-113	Rahbeh	Irrigation canals	9,650		4,000	4,000	13,650
RI-A/I-114	Koss Akkar	Irrigation canals	12,596		6,000	6,000	18,596
RI-A/II-115	El Dawra	Irrigation canals	18,097		7,775	7,775	25,872
RI-A/II-116	Rahbeh	Agricultural roads	8,540	16,800	5,000	21,800	30,340
RI-PW /VI-117	Marj El zouhour	Drainage canals	7,710		4,000	4,000	11,710
RI-HE /IV-118	Bint Jbeil	Health & Educ	14,160		3,540	3,540	17,700
RI-HE/IV-119	Bint Jbeil	Health & Educ	6,178		5,000	5,000	11,178
RI-HE/IV-120	Mays El Jabal	Health & Educ	6,232		1,400	1,400	7,632
RI-HE/IV-121	Ain Ebel	Health & Educ	17,888		13,500	13,500	31,388
RI-A/II-122	Beit Mellat	Irrigation networks	59,000		16,000	16,000	75,000
RI-HE/VI-123	Marj El zouhour	health &education	8,758		1,350	1,350	10,108
RI-A/IV-124	Ain Ebel	spring &pool	13,528		5,000	5,000	18,528
RI-HE/VI-125	Kfeir	health &education	11,794		4,000	4,000	15,794
RI-HE/V-126	Ksaybeh	Health & Educ	30,880		10,000	10,000	40,880

Code No.	Village	Project type	AID US\$ funds	Local Contribution			Total Cost US \$
				Land	Labor & Cash	Total \$	
RI-PW/I-127	Akkar Cluster	Potable water	11,095		6,500	6,500	17,595
RI-PW/VI-128	Mymess	Retaining walls	14,995		5,000	5,000	19,995
RI-PW/V-129	Kfarsyr	potable water	5,000		4,000	4,000	9,000
RI-HE/VI-130	Kfeir	Health & Educ	10,601		8,000	8,000	18,601
RI-HE/ III-131	EL Nabi Ousman	Health & Educ	18,317		10,000	10,000	28,317
RI-HE/ III&VI-132		Health & Educ	2,361				2,361
RI-A/V-133	Kfarsyr	Agricultural roads	11,724		26,000	26,000	37,724
RI-A/V-134	Jibsheets	water spring	13,244		10,000	10,000	23,244
RI-A/V-135	Kfarsyr	Agricultural roads	15,000		27,000	27,000	42,000
RI-PW/V-136	Ksaybeh	Public works	10,487		3,150	3,150	13,637
RI-PW/I-137	Shakdouf Akkar	Public works	12,955		7,333	7,333	20,288
RI-PW/ VI-138	Marj El zouhour	Public works	11,457		7,000	7,000	18,457
RI-A/III-139	El Nabi ousman	Agriculture	10,375		5,000	5,000	15,375
RI-A/I-140	Akkar el attika	Agriculture	7,961	11,000	1,500	12,500	20,461
RI-HE /III-141	Tekrit	Health & Educ	27,000		15,000	15,000	42,000
RI-A/I-142	Aayat	Agriculture	8,614		3,650	3,650	12,264
RI-PW/ IV-143	Bint jbeil	Public works	12,122		4,600	4,600	16,722
RI-PW/ III-144	Jdaideh el fakiha	Public works	7,258		5,000	5,000	12,258
RI-A/VI-145	el khelwat	Agriculture	15,000		1,750	1,750	16,750
RI-A/VI-146	Kfeir	Agriculture	4,400		30,000	30,000	34,400
RI-A/VI-147	Mymess	Agriculture	10,500		1,500	1,500	12,000
RI-HE /IV-148	Bint jbeil	Health & Educ	7,300		6,700	6,700	14,000
RI-HE /I-149	Akkar el attika	Health & Educ	1,453		150	150	1,603
RI-HE /III-150	Jdaideh el fakiha	Health & Educ	8,500		5,000	5,000	13,500
RI-A /III-151	Elnabi ousman	Agriculture	7,200		1,500	1,500	8,700
RI-PW/VI-152	Beit Lehya	Public works	6,396		4,750	4,750	11,146
RI-PW/V-153	Jibsheets	Public works	10,685		5,000	15,685	15,685
RI-PW/VI-154	Ain atta	Public works	7,306		4,200	4,200	11,506
RI-HE /VI-155	Tannoura cluster	Health & Educ	10,640				10,640
RI-HE /III-156	Elain cluster	Health & Educ	7,354				7,354
RI-PW/II-157	Rahbeh	Public works	4,280		1,750	1,750	6,030
RI-A /IV-158	Ainata	Agricultural roads	3,250	6,500		6,500	9,750
RI-A/IV- 159	Aytaroun	Agricultural roads	15,000		10,000	10,000	25,000

# EMERGING

# LEBANON

## 2000 THE ANNUAL BUSINESS ECONOMIC AND POLITICAL REVIEW



### Agriculture

#### DEVELOPMENT INITIATIVES

## YMCA: THE VILLAGE PEOPLE

The YMCA is helping to fill the void left by the government in rural areas.

The Young Men's Christian Association (YMCA) is famous as a provider of swimming pools, gyms, rented rooms and sundry improving activities in clean-limbed, apple pie surroundings. In Lebanon the YMCA is rather different, and instead runs a major non-governmental programme to improve the often dire social conditions of rural Lebanon.

This novel role was adopted in response to the civil war, when the organisation worked to alleviate suffering regardless of sect or political affiliation. Today, eight years after the end of the war, conditions in parts of the country are such that the task of rehabilitating and reintegrating communities into the fabric of society remains urgent, albeit one left almost entirely to foreign aid programmes and local non-governmental organisations (NGOs). In the case of the YMCA, its Integrated Rural Development Programme is funded by the US Agency for International Development (USAID), as are several other NGO programmes.

The programme aims to deliver a comprehensive improvement in the lot of rural communities, covering everything from the introduction of new farming techniques and crops to building schools and developing local democracy, on the basis that only a holistic approach can yield long-term sustainable improvement.

One area benefitting from the programme is a cluster of villages centering on El Ain in the north Bekaa valley. Here Lebanon's social divide is thrown into sharp relief; the local economy is moribund, the government appears to be absent and urban migration is rising every year. The traditional fruit and vegetables produced in the Bekaa are undercut by subsidised produce from neighbouring countries, much of which is smuggled into the country to avoid protective tariffs (see main section for more detail). Farm gate prices are so low that many farmers in El Ain prefer to hoard produce and even to let it waste than to sell it at such low prices.

This translates into very low incomes relative to the cost of living. Farmers put their typical annual income for a family of five at around \$1,500-2,000, causing hardship and relative poverty rather than



YMCA: POINTING THE WAY

attend because they have to work on the land. Medical facilities are provided not by the government, but by Hezbollah, the radical Shia organisation, which commands widespread allegiance in the area.

hunger. It was not always so. During the war years the majority of farmers cultivated illegal crops, opium and hashish, which gave them healthy incomes and brought riches to the local elite. Annual returns per hectare (not adjusted for inflation) were around \$690 for hashish and \$3,250 for opium, with 11,000-16,000 ha under illegal cultivation by 1990 according to the UN Development Programme (UNDP). When the government virtually eradicated these crops in 1991 it was, in effect, poleaxing the local economy.

Western governments and multilaterals promised income support and crop substitution programmes, which had successfully eased the transition to legitimate crops in Turkey, but today the farmers in Lebanon are still waiting for this help. The biggest contributor has been the UNDP, with a fund of \$12m from 1995-2000, commonly accepted to be entirely inadequate and to have been largely wasted through bureaucracy and corruption.

In other words, there is a strong incentive to resume the secret cultivation of illegal crops, and informed sources believe that production is once again rising. The people in El Ain and surrounding areas feel alienated and neglected by central government, neither contributing to it nor receiving anything from it, a situation reinforced by powerful tribal bonds. Its promises and orders carry scant moral or practical force. The village of El-Nabi Ousman, for example, has government schoolteachers but is expected to provide school buildings and upkeep, while one-fifth of children do not

attend because they have to work on the land. Medical facilities are provided not by the government, but by Hezbollah, the radical Shia organisation, which commands widespread allegiance in the area.

Against this background the YMCA has an immense task. It starts by consulting the community as a partner, specially elected local co-ordinators assess exactly what aid is required, and then raise at least 30% of the cost locally, thereby ensuring that the people have a direct economic interest in the programme and avoiding white elephant schemes. This stage is an end in itself, developing a civic and democratic identity in addition to traditional loyalties. Around El Ain the projects include irrigation channels to combat creeping desertification, the introduction of less thirsty, higher yielding crops, construction of school buildings and provision of pharmaceuticals to dispensaries.

Throughout the cluster, women are being trained in cottage industries, principally the pickling of excess produce, which can then be sold for good prices as organic food instead of going to waste. Those who receive the training can then pass it on to others, spreading just the sort of intermediate technology and value-added techniques that are needed in the area.

The YMCA's work is especially interesting because it addresses the spectrum of problems in rural areas simultaneously, but its efforts, and those of other NGOs, cannot provide an overall solution at present levels of funding. It does, however, illustrate what kind of wide-scale action might be undertaken were the international community and central government to begin recalling their promises to Lebanese farmers.

If inaction continues, social unrest of the sort seen in early 1998 is not impossible, along with further urban migration and a wider return to illegal crops. Parts of Lebanon unquestionably lack the political influence to secure adequate resources from central government, but it is perhaps unwise to imagine that, impoverished, neglected, and short of hope as they are, these people will remain docile indefinitely.

# *Distilling & Food Processing Center - Ksaybeh*



**Distilling process**



**Syrup making**



**Bitter Orange jam**

## *Vinegar Production - El Ain*



**Grape shredding**



**Apple pressing**



**Storage for fermentation**

# *Beekeeping & Honey Production Center - Kfeir*



**Delivery of equipment & tools**



**Beehives & Beeswax**



**Stainless Drum for honey storage**

*Beirut Hall Exhibition “4 - 8 April 2000 “*  
*Marketing of Rural Delights*



**Minister of tourism “Mr Arthur Nazarian”  
visiting the YMCA stand**



**Wide variety of products**

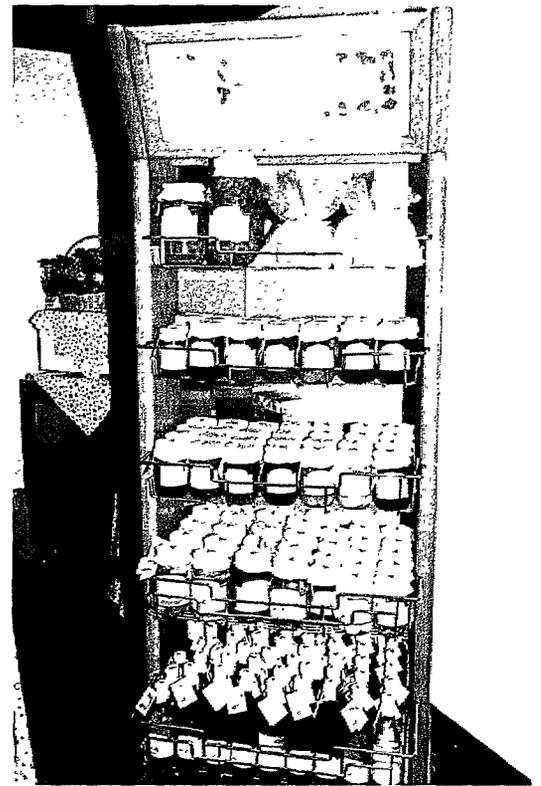


**Sampling the products**

*Beirut Hall Exhibition "4 - 8 April 2000"*  
*Marketing of Rural Delights*



**YMCA booth**

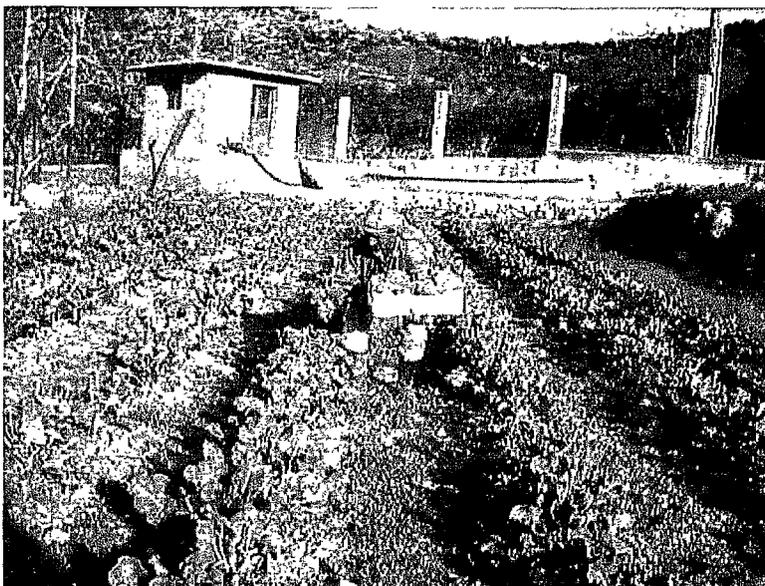


**Rural Delights stand**

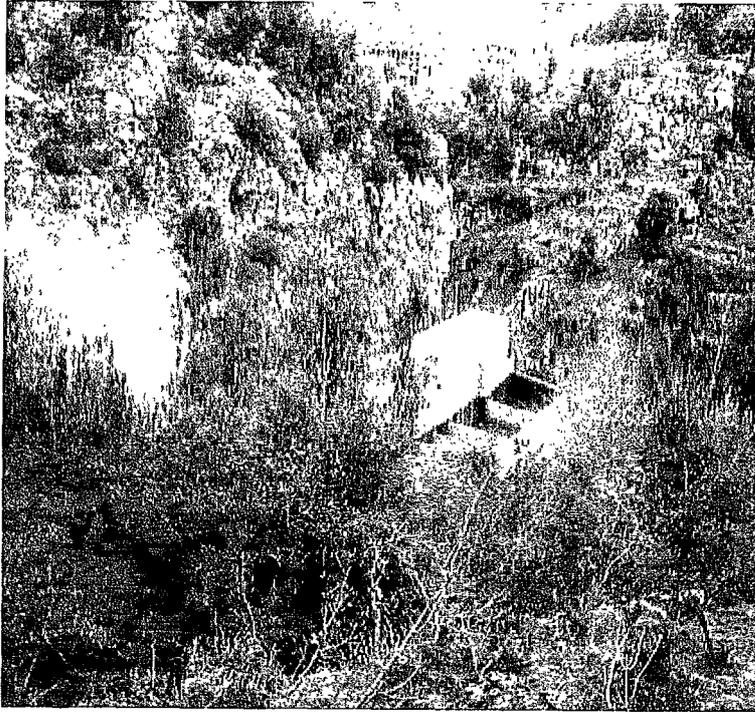


**Mr Spike Stephenson visiting**

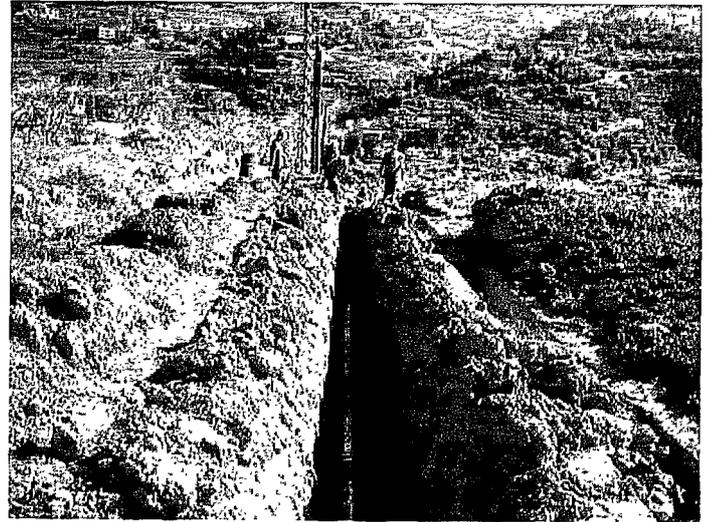
*Prototype Farm & Agricultural skills Training  
Jibrael & Akkar El Attika*



# *Waste water management System - Koss Akkar*



**Multi compartment septic tank**

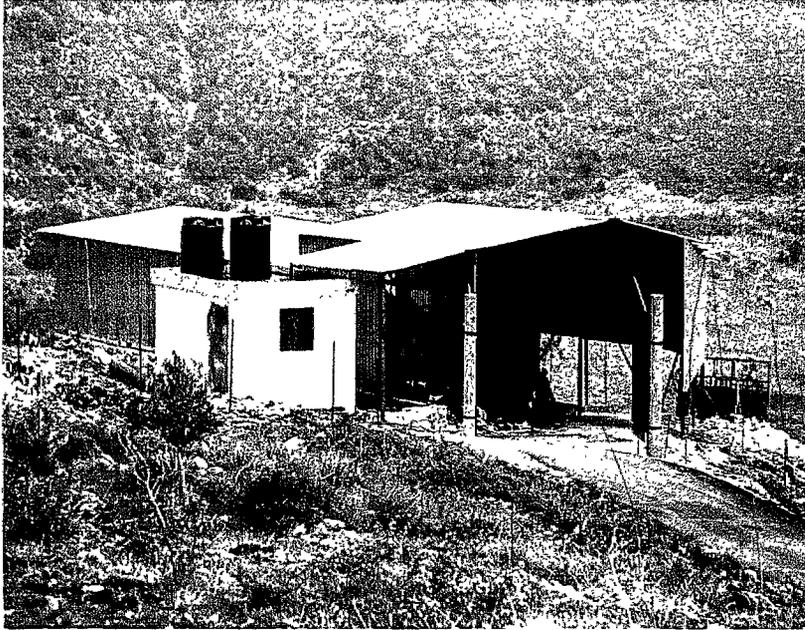


**Digging & Piping**



**On going works**

## *Solid Waste Treatment Center - Kfarsyr*



**Kfarsyr facility**



**Piling of compost  
for further maturation**

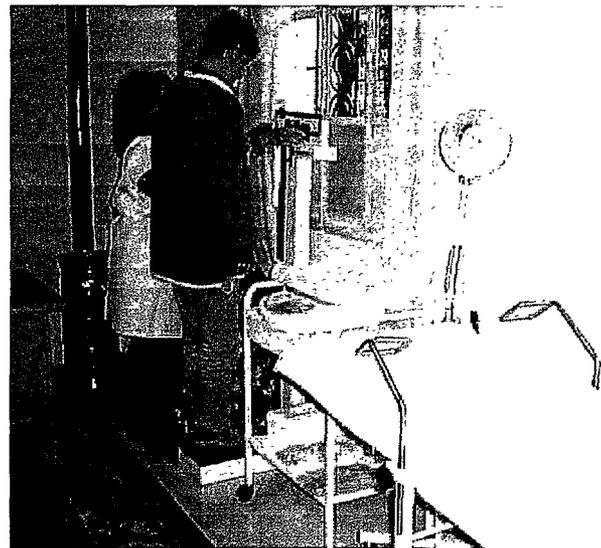


**3 grades of generated compost**

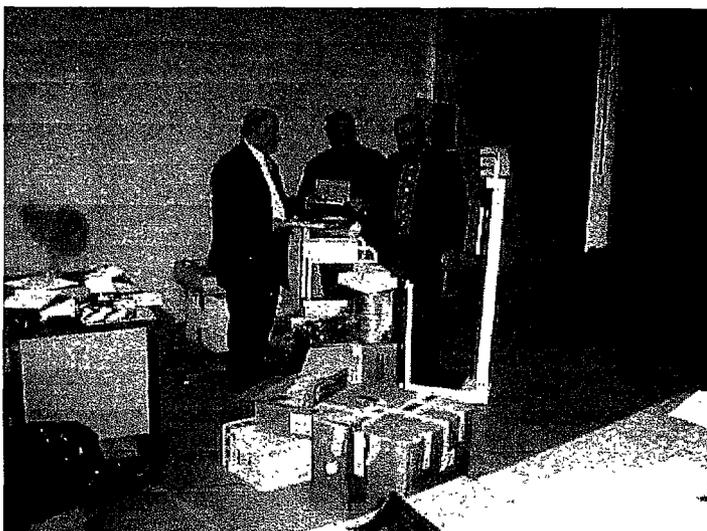
# *Equipment & Training for dispensaries*



**Training of dispensary personnel**



**Improved medical care provision with newly furnished equipment**



**Delivery of equipment**

# *Civic Participation: Training & Youth Volunteer Camp*

