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**YMCA of the USA/YMCA of Lebanon  
Integrated Rural Development Project**

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

**Progress Report  
(October 1, 1997 – March 31, 2001)**

**(April 30, 2001)**

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## I. SUMMARY

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

The YMCA Integrated Rural Development Program in Lebanon is a five-year project beginning October 1, 1997 and ending September 30, 2002. 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 four 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 8 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 10 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 the need 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 95 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 described in the program's four 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

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

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

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

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 of old laws

*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 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.*

## B. CURRENT PROJECT STATUS

This document will report on the sum total of program achievements and projects' execution for the period from October 1, 1997 through March 31, 2001 i.e. cumulative information for three and a half years or 42 months. The current section of the report will cover program actual status, and track changes that occurred on the national plane and which affected program performance during the last period under review. As for the following two sections, they will cover program status of implementation and achievements, first according to cluster, and second according to project component.

### Country Operating Context

On the country level, specifically in the South of Lebanon, significant political and security events have occurred during the last six months i.e. from September 2000 till March 2001. After the Israeli withdrawal from the security zone in May 2000, the Lebanese internal security forces were put in charge of handling the internal security issues of the newly liberated area. When the wave of joy subsided and the continuous stream of visitors dried up, the sad reality became evident: The Israeli withdrawal left an area deserted from its inhabitants. Numerous families who were associated with the occupation forces have fled away, another group have surrendered themselves to the Lebanese government and are serving time in prison. The original population, who were previously displaced to other areas of the country, has not returned yet. All the declared promises of assistance to the South of Lebanon and for various reasons did not materialize. Economical activities in the area, aside from Tobacco cultivation, are practically non-existent. Villages and communities are deserted; the young active workforce is practically absent.

*Some communities like Hanine and Soujoud, which were completely demolished, are now undergoing extensive house reconstruction thanks to a Kuwaiti pledge of assistance,. The other major player in the region is the Council of the South who, on behalf of the Lebanese government, is handling basic infrastructure reconstruction, especially potable water networks and reservoirs. The resulting situation is that the USAID 'cluster program' remains the only viable actor on the development scene of the area.*

### Program Operating Context

In view of the current situation in the South, and in agreement with USAID and the remaining USAID financed NGOs, the YMCA have shifted program focus to cover the South of Lebanon and the Western Bekaa valley to immediately address critical needs of communities which were affected by the twenty years occupation of the area. The YMCA has requested additional funds from the US Agency for International Development coupled with an extension of the program geographical area to include: 2 additional clusters and an expansion of 3 old ones i.e. a total of 8 clusters encompassing 95 communities. The geographic expansion was approved in September 2000, and additional funds in the amount of US\$ 1,648,212 were allocated for the extended geographical area. The YMCA , based on an agreement with USAID, has reprogrammed US\$ 522,000 from the remaining clusters, and allocated these funds to the new integrated communities. Moreover, the wheat monetization program 416B will insure additional funds to be disbursed for agricultural and environmental activities in the region.

Unfortunately, by the time these changes were implemented, and due to delays in the actual disbursement of funds, the winter season came about: and as a consequence of the harsh weather the YMCA has deferred implementation of major infrastructure work. In the meantime, the program staff surveyed the area, and assisted villages in electing representative committees and in prioritizing their needs. New economic initiatives aimed at increasing agricultural activities were under preparation and assessments and investigations for introducing cottage industry, beekeeping, new crops, and eco-tourism are currently being developed (details for these projects are provided in subsequent sections).

Meanwhile, and as a direct result of all the above new field developments, the program slowed down its activities in the remaining clusters, and concentrated on preparing the field for prospective activities in the new expanded zone.

### III. STATUS REPORT BY CLUSTER

The YMCA's Integrated Rural Development Program employs a 'cluster approach' that is particularly suited to the need for post-war reconstruction, development, and reconciliation in Lebanon. For example, most of the clusters targeted, and indeed many of the villages, are home to several communities of differing religious and political affiliations. The Integrated Rural Development Program, however, encourages and facilitates communities in the identification of similar problems, and in the identification of cooperative solutions to these problems. Furthermore, by fostering understanding and the recognition of common interests and goals between neighboring communities, the cluster approach, it is hoped, will create unified political bodies to attend to the needs of neglected areas.

Following the Israeli withdrawal from the Southern Security Zone in May 2000, and based on the new prevailing situation in the South, the YMCA has been granted a time and monetary extension of the prevailing cooperative agreement by USAID. The program geographic area has been expanded to include additional clusters and communities in the South of Lebanon, and additional funds for US\$ 1,648,212 were allocated for the extended geographic areas. In addition, The YMCA requested a reallocation of US\$ 522,000 from funds previously allocated to other clusters and other activities to be programmed to the new/expanded clusters in the South.

The USAID-YMCA clusters have been expanded to encompass 8 clusters covering a total of 95 village/communities enclosed within its geographical scope.

In view of the limited availability of program funds (additional/pledged funds are still unreleased), and the extensive number of communities included in the program (significant political pressure has been exerted on USAID and the YMCA to include additional communities), the YMCA has decided on the following transitory implementation strategy:

To withhold, to some extent, the implementation of new projects in the clusters of Akkar and Eastern Bekaa  
To concentrate activities in the South as well as in the Western Bekaa area  
To slow down disbursements on the overall program level.  
To seek to reach the largest number of communities with the limited resources available.

Based on the new program strategy, and to avoid re-reporting on old clusters of communities, the following section will report in a summarized, narrative form, on the program new/expanded clusters only, and those that are located in the South of Lebanon as well as Western Bekaa. The report will cover the cluster main environmental conditions and chief community orientation. Furthermore, the following section will provide in a table form, the sum total of all the activities/projects that have been executed up till March 2001, in each cluster including the new ones, and under each program component.

#### Cluster # 4: Bent Jbail (South Lebanon)

**# Of villages:** 22 **Mohafazat:** Nabatiye

**Qada:** Bent Jbail, Marjayoun and Tyre

**Cluster Expansion:** 14 additional villages

**Villages covered:** *Btaichiye, Dhaira, Yarine, Zalloutiye, Marouahine, Hanine, Ain Ebel, Bent Jbail, Maroun Er Ras, Yaroun, Aaitaroun, Ainata, Blida, Mhaibib, Meiss El Jabal, Houla, Markaba, Talloussa, Beni Haiyen, Rabb et Talatine, Et Taibe, El Kantara*

**Cluster Population:** 13,260 families (106,080 persons) Initial population  
5,425 families (24,475 persons) Current residents

**Cluster Orientation:** The cluster of Bent Jbail is situated in the South of Lebanon, 150 kilometers away from the capital Beirut. Since 1982, this area had been segregated from the rest of the country and annexed to the north of Israel. This area suffered repression, hazardous security conditions, and witnessed repetitive waves of military violence. Access to, and communication with, the rest of the country used to be extremely difficult. As a result, the development of the region has been stalled and a large percentage of the population has been displaced.

Prior to the Israeli withdrawal in May 2000, the YMCA - Bent Jbail cluster was limited to 8 villages only. Following agreement with USAID, the cluster geographical coverage was expanded to cover a total of 22 villages. The largest percentage of the local inhabitants are Shiites with minorities of residents of Moslem Sunnite and Christians. Many families have fled for security reasons while others have not yet returned for lack of economic opportunities.

This area is poorly endowed as regards to natural resources. It is a dry land with minimal water sources, and therefore water is a precious resource. Due to the nature of the area, water has always been accumulated in constructed village catchment pools. The local population rely basically on rainfed crops for the agricultural sector namely olives, tobacco growing & some grains, in addition to animal husbandry.

#### Cluster # 5: Nabatiye (South Lebanon)

**# Of villages:** 17 **Mohafazat:** Nabatiye **Qada:** Nabatiye

**Cluster Expansion:** 11 additional villages

**Villages covered:** Kfarsir, Sir El Gharbieh, Braiqaa, Aadchit, El Qsaibe, Jibshit, *En Nabatiye, Maifadoun, Choukine, En Nabatiye El Faouqa, Kfar Tebnit, Arnoun, Habbouch, Qaaqaiet El Jisr, Kfar Roummane, Zaoutar ech Charqiye, Zaoutar el Gharbiye.*

**Cluster Population:** 15,985 families (127,880 persons) Permanent residents  
3,465 families (27,720 persons) Summer residents

**Cluster Orientation:** The cluster of Nabatiye is located in the South of Lebanon, at a distance of 65 to 85 kilometers from the capital Beirut, and at an altitude of 550 meters above sea level. Adjacent to the security zone, this cluster of villages witnessed, all throughout the Israeli occupation to the South of Lebanon, sporadic shelling and retaliatory military operations. As a result, the local populations have been repetitively displaced to other safer areas. Moreover, some villages, such as Zaoutar ech Charqiye, Zaoutar el Gharbiye, Kfar Roummane and Arnoun, have incurred heavy physical damages to both village infrastructure and housing units. All of the cluster local inhabitants belong to the Moslem Shiite faith.

Following agreement with USAID, the Nabatiye cluster has been expanded to cover a total of 17 villages. Some of the localities included are major cities like Nabatiye, Habbouch and Kfar Roummane, whereas others are small rural communities with a heavy dependence on agriculture as a major source of income. The rate of migration of the local population to places such as Africa and Australia is high. Monetary remittances of the emigrants to their families back home have managed to assist in the economic survival of the remaining families.

With the exception of the village of Kfar Roummane, the area is poorly endowed with natural water resources. As a result, the agricultural sector depends heavily on rainfed crops such as olives, tobacco growing and some grains, in addition to animal husbandry. The populations of large localities such as Nabatiye and Habbouch derive their income from a variety of businesses and employment in the public and private sector.

#### Cluster # 6: Rachaya - Hasbaya (Western Bekaa)

**# Of villages:** 14 **Mohafazat:** Bekaa **Qada:** Rachaya

**Cluster Expansion:** 6 additional villages

**Villages covered:** Ain Aata, Ain Hourche, Tannoura, Beit Lahia, Marj El Zouhour, Mimes, El Khalouat, El Kfair, *Aaita El Foukhar, Ain Aarab, Yanta, Bekka, Mdoukha, Khirbet Rouha.*

**Cluster Population:** 3,215 families (15,715 persons) permanent residents  
With an additional 935 families (4,575 persons) during the summer

**Cluster Orientation:** The cluster of Rachaya – Hasbaya is located in the Western Bekaa valley, at a distance of 90 kilometers from the capital Beirut, and an altitude varying between 1,000 and 1,500 meters above sea level. In this area formerly known as the “security zone” on the border the villages were deeply affected by the heavy military presence.

Following agreement with USAID, the cluster geographical coverage has been extended to cover a total of 14 villages with a multi-confessional population (Druzes, Sunnites, and Christians). The new communities annexed to the cluster, reveal distinctive features of tourism interests such as: archeological remains, historical sites, and a natural, striking and varied environment.

This remote and neglected area has virtually no economic opportunities, thus resulting in a high rate of migration and immigration of the economically active population to more promising areas leaving behind infants and the elderly. Monetary remittances of the emigrants to their families have managed to assist in the economic survival of the remaining population and in the maintenance of some community projects.

Water resources in the cluster are very limited: Rainfall levels are extremely low, and ground/surface water sources are highly contaminated by sewage. 80% of the local inhabitants depend on agriculture as their major source of income. The main agricultural crops in the area are rainfed such as olive trees, grapes for wine making, cherries, and grains.

#### Cluster # 7: Tyre (South Lebanon)

**# Of villages:** 20 **Mohafazat:** South  
**New Cluster**

**Qada:** Tyre

**Villages covered:** Maarake, Aabbassiye, Deir Qanoun En Nahr, Tairfalsay, Elhmayry, Derdghaya, Barich, Ghandouriye, Arzoun, Chehour, Maaroub, Qana, Deir Aamess, El Biyad, Zebqine, Aaitit, Hanaouay, Borj Ech Chemali, El Bazouriye, El Chhabiye

**Cluster Population:** 12,676 families (101,408 persons) permanent residents  
With an additional 1,735 families (13,880 persons) during the summer

**Cluster Orientation:** The cluster of Tyre extends to cover 20 communities. They are located close to the major city of Tyre in the southern part of the country. The geographic areas of the cluster expand from the coastal region to 450 meters above sea level. The enclosed villages are situated at a distance of more than 90 kilometers from the main capital Beirut. All the cluster communities were outside the enclosure security zone, although some villages were adjacent to it, and as a result suffered sporadic shelling and retaliatory military operations. Most of the villages have their own municipal councils, which insures able grounds for development work and community participation. All of the cluster local inhabitants, aside from the deserted village of Derdghaya, which is Christian, belong to the Moslem Shiite faith. The rate of migration of the local population to places such as Africa and the Gulf Countries is high. Monetary remittances of the emigrants to their families back home have managed to assist in the financial survival of the remaining families.

The economic livelihood of the local inhabitants depend to a large extent on agriculture, and various service businesses and governmental employment. Villages located in the coastal region, cultivate citrus trees, whereas the remaining villages, on a higher altitude, depend on rainfed agriculture such as olive trees, grains and tobacco crops. Finally, some communities overlook the famous Litany River and have access to its shores.

#### Cluster # 8: Jabal Er Rihane (South Lebanon-Jezzine area)

**# Of villages:** 9 **Mohafazat:** South  
**New Cluster**

**Qada:** Jezzine, Jib Jennine

**Villages covered:** Jabal Er Rihane, Aaramta, Mlikh, Es Srairi, Maidoun, Sejoud, El Aachiye, El Jarmaq, El Qatrani

**Cluster Population:** 965 families (2,895 persons) current residents  
2,745 families (21,000 persons) initial population

**Cluster Orientation:** The cluster of Jabal Er Rihane is located at a distance of 8 kilometers from Jezzine, and 80 kilometers from the capital Beirut. It is a high mountainous region, of 1000 to 1400 meters above sea level. All of the cluster communities were included in the security zone. Some of these villages were on the demarcation lines, and as a result were completely destroyed and their population dislocated (Sejoud, El Jarmaq, Maidoun). The rate of population return after the liberation of the South of Lebanon is very low, since most of the village vicinities are still mined and constitute danger zones. The cluster geographical coverage extends to cover a total of 9 villages with a multi-confessional population (Druzes, Shiites, and Christians).

A large majority of the people who remained in their villages during the occupation used to work in the northern part of Israel, and as a result of the liberation, they ended up being unemployed, with no other source of income available to them.

Aside from Sejoud, which received financial assistance from the Kuwaiti fund for house reconstruction, the area is practically deserted with no major economic activities. Most of the people are still hesitant about initiating agricultural activities because of the inherent risks involved in land cultivation (mines and restricted marketing of the end product). The area is characteristic of beautiful natural scenery.

*Table 1 in the following section, provides a summarized table view of all the activities which have been executed in each cluster, and under each program component. For details by cluster, of each activity with its related cost, impact, and actual status, please refer to annex B at the end of this report.*

**Table 1: Activities Schedule by Cluster  
October 1, 1997 – March 31, 2001**

Cluster	Villages	Agriculture	Public Works	Health & Education	Environment	Civic Participation & Community Education	Cottage Industry Training
I	Akkar El Attika (Koss&Shakdouf) Aayat El Dawra	25 km of agric. roads , 2 bridges, 4 gangways, 1,958 sq. m of retaining walls 24,295 m of irrigation canals, 2 irrig. reservoirs & irrig. water pump prototype farm & agric. skills training	2 potable water reservoirs & 1,320 m networks 1565sq.m of road ret walls	Construction of secondary level public school Dental Hygiene campaign workshop / needs assessment in education	2 waste water treatment systems reforestation of 1000 trees research & awareness solid waste treatment center planned	Various Training for municipalities & community leaders (5 events) Various training for youth groups (5sessions) Equipment for municipality	2 sessions completed 73 women graduates 2 informal production groups
II	Tekrit Dahr El Laysyneh Beit Mellat Rahbeh Jibrael	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 with 3 pumps Agricultural demo plot & skills training	750 m of potable water networks	Cons.of 2 public schools Dental Hygiene campaign Medical equipment for health facility	Solid waste containers Environmental needs assessment Environmental Education & Activities	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	Jdaidet ElFakiha Fakiha & Zaytoun El NabiOusman El Ain	2800m of agric. roads 29,967 m of irrig canals, 240sq.m n retain walls rehab of 2 water springs & irrigation reservoir prototype farm & agric. training	2 potable water reservoirs & rehab of 11,600m potable water networks 1,267sq. m, of road retaining walls, bridge topography works for road	const. works for 2 schools extension works for a youth club. Dental hygiene campaign Administrative & technical training for dispensaries Workshop / needs assessment in education rehab of dispensary & equip. for 3 dispensaries	Public Park	Various Training for municipalities & community leaders (1 event ) Various training for youth groups (8 sessions) Volunteer work camp (2 events) Equipment for municipality	2 sessions completed 67 women graduates Solar drying center Trout smoking center 2 cooperatives & 2 production groups one women association

Cluster	Villages	Agriculture	Public Works	Health & Education	Environment	Civic Participation & Community Education	Cottage Industry Training	
IV	Bint Jbeil Aytaroun Maroun El Ras Blida Mays el jabal Mhaybib Ainata Ain Ebel BanyHayan Rabbet Talatine	Yaroun Houla Markaba Talloussa Et Taibe Marouahine Zalloutiye Dhaira Btaichiye Yarine Hanine	55,725m of agric. roads 330sq m of retaining walls 3 rainfed pools rehab of water source & irrigation reservoir	2462sq.m of road retain.walls 336m of drainage canals 4 potable water reservoirs	Rehabilitation works for 6 school facilities Dental hygiene campaign rehab & equip for one dispensary	Reforestation of 1700 trees Solid waste treatment planned	--	1 session completed 51 women participants
V	Kfarsyr Adshit Brayka'a Ksaybeh Sir El Gharbieh ZaoutarelCharbie ZaoutarehCharqiye Nabatiyel Fouka Kfarroumman Qaaqaiet Ijistr	Jibsheet EnNabatiye Maifadoun Choukine Kfar tebnit Arnoun Habbouch	28,450 m of agric. roads, 4 gangways, 1 bridge rehab .of 3 water springs &one irrigation reservoir water dam & related pool agr. Training	Elevated potable water reservoir, 1 bridge 3,690 m of drainage canals 3,949 sq. m road retain. walls 1500 m potable water networks water source & reservoir	2 primary health care workshops one youth club dental hygiene campaign workshop / needs assessment in education	2 solid waste management centers (1 under planning) rehab of 1 spring & 2public parks workshop on solid waste management reforestation of 1800 trees	Various Training for municipalities & community leaders ( 2 events) Various training for youth groups (8 sessions) Volunteer work camp (3 events) Equip. 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 KhirbetRouha	Aita El Foukhar Ain Arab Yanta Bekka Mdoukha	34,500m of agric. roads, bridge, 6 gangways, 766sq.m of retain. walls 4 rainfed pools rehab. Of 5 water sources &1200m canals rehab .of one mill agr. Training	2,320 m of drainage canals 3 water pumps 3,109 sq.m road retain walls Rehab. of 2 water springs & reservoirs Potable water reservoir &9600 m networks	Rehab of 3 health units facilities Equip. for 5 dispensaries Dental hygiene campaign A football & multipurpose court administrative .& technical training for dispensaries Workshop / needs assessment in educational facilities	Reforestation of 5,085 trees One waste water system water source mapping & quality analysis /workshop. environmental activities rehab & protection of pine forest	Various Training for municipalities & community leaders ( 3 events) Various training for youth groups (9 sessions) Volunteer work camp (3 events) Equip. for municipality	3 sessions completed 130 women graduates 3 informal production groups one women association Beehives & honey production center Olive oil bottling center
VII	Maarake Abbasiye Deir Qanoun Nahr Tairfalsey ElHmayry Derdghaya DeirAamess Hanaouay BorjEchChemali	Barich Ghandouriye Arzoun Chehour Maaroub Qana ElBiyad Zebqine Aaitit ElChhabiye	--	--	--	--	--	
VIII	Jabal El Rihane Aaramta Mlikh EsSrairi	Maidoun Soujoud El Aachiye El Jarmaq El Qotrani	17,500 m of agric. Roads 2 rainfed pools irrig. reservoir & canals	--	--	--	--	

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

#### IV. STATUS REPORT BY COMPONENT

The Integrated Rural Development project report has been divided 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 IRDP four components are: (1) Rural Infrastructure Development and Rehabilitation (including agricultural skills training; public works rehabilitation and construction; and health and education facilities rehabilitation, 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.

**Owing to the extensive programmatic achievements of the last three and a half years (a total of 42 months), and for the sake of integration, cohesiveness and clarity, this cumulative report will maintain the same reporting format as the previous one, and will highlight in bold/italics the total program accomplishments to date, along with the last six months new trends, and project developments. In addition, Annex A, which is a listing of all the projects developed to date, will emphasize actions through the shaded areas, which were implemented during the last six months.**

#### **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 capabilities of 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 - 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 31,2001.**

***To date, after three and a half years of continuous project implementation, a total of 200 major rural infrastructural projects have been identified, appraised and developed into viable work plans, and their financing agreed to and secured from all parties involved. Of these 200 actions, 181 projects (90%) have already been completed, 14 infrastructural actions (7%) are under execution, and only 5 actions (3%) 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.\$ 2,827,004** (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 has implemented projects in all the sub-sectors of the infrastructure component of the program.

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 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 once the major needs in the agricultural infrastructure were satisfied. Finally, the program's third phase, 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, and construction of community centers such as youth clubs and sports facilities were initiated, are under execution or already completed. *The fourth phase witnessed an expansion of the program geographical area to include 61 new rural communities located in the South of Lebanon and the Western Bekaa valley. As a result, the program focus during the last six months under review, witnessed a resurgence of activities in the agricultural sector, implemented mainly in the newly incorporated villages (refer to the shaded areas in annex A).* The following section of this report will detail 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 around 175 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 4,804 hectares of fertile land. Furthermore, approximately 463 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 72 kilometers of irrigation canals and networks, 9 rainfed pools, 7 irrigation reservoirs and one water dam. Two artesian wells and related irrigation structures were rehabilitated and water pumps installed; also eleven water sources were rehabilitated.* These activities will insure optimal use of the limited natural water resources available in the concerned areas. *An additional 2,095 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, 22 training sessions, with 760 farmer participants and involving more than 23 villages, have been conducted* (for details refer to the section on "Agricultural Skills Training")

*A total of US \$ 1,753,051 of USAID funds have been invested in the above works.*

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

Since the beginning of program implementation, *the local communities involved have identified and completed the execution of 47 public works projects. An additional four activities are currently under execution and two projects are still in the agreement/negotiation phase.* Upon completion of all of the 53 public works and infrastructural projects, the following would have been achieved:

- a- Construction of approximately 12,512 square meters of support and retaining walls, 2 bridges and 6,146 meters long of drainage canals. The execution of these structures will ensure safe access to and use of village roads for approximately 13,631 families*
- b- Construction of 12 potable water reservoirs, installation of 25 kilometers of related piping networks, 3 water pumps, and rehabilitation of 2 water sources. The completion of these works will ensure access to an improved and safe water supply for 9,353 families.*

*A total of US\$ 739,494 of USAID funds have 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 30 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 the high fertility rate, and population density, is not matched with the local schools capacity to accommodate for the constantly growing number of children. Works covered construction of whole new buildings or extension works for existing facilities.

**Physical and technical rehabilitation of (10) local medical units** (dispensaries owned and run by local grass root organizations). Activities in the medical, health field covered: **physical rehabilitation of (4) health facilities**, complete furnishing and equipment for (4) medical units, and provision of badly needed diagnosis equipment, in addition to some furniture and tools, for **(10)** operating health facilities. Focus of implementation for the period under review has been devoted specifically to promoting, upgrading, equipping and human resource training for the Tannoura cluster dispensaries. This remotely accessible cluster lacks the most basic medical services and program efforts have been concerted towards filling this gap and insuring availability of these services from now on.

Four training/workshop sessions have been provided for 160 participants in order to enhance their service delivery capacity in the administrative and medical field. Physical implementation of activities, such as shelter repair, furnishing of equipment and tools was complemented with skills upgrading of the human resources working in these targeted dispensaries.

**Seven** health units were connected to the YMCA medical program and provided with medicines for their patients. When a dispensary becomes technically viable, according to the YMCA Medical Program criteria, it was automatically linked to the YMCA medical program. This program, with co-funding from the Ministry of Public Health, insures regular delivery of medicines for the chronically ill patients within the dispensary geographical coverage.

Dental hygiene campaigns: The first and second phase of an all encompassing campaign have covered the six clusters, and managed to reach:

\* 10,404 children aged between 6 and 12 years enrolled in 67 schools  
5,525 individuals aged 12 years and above in 36 schools and across five clusters.

Construction/completion of two youth clubs and one multipurpose and football court. The implementation works of these activities were partially executed during the voluntary work camps connected with the civic participation component of the program. These actions were specifically targeting local youth mobilization and training on civic participation and development issues. The construction of the physical structures has been used as an implementation methodology and as a focal point for youth involvement. The ultimate goal was the creation, development and future sustainability of a youth leadership nucleus: Project achievement was used as a tool.

*In summary, upon completion of the 30 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.*

***A total of US\$ 334,459 of USAID funds have been spent on the above works.***

*The last six months period were concerned mainly with an in depth follow up of the health units which have been targeted for rehabilitation, furnishing and capacity building. Continuous monitoring of these facilities aimed at insuring: (1) adequate and professional operations, and (2) long term sustainability. In addition, the program is currently surveying health service provision in the newly liberated zone in South Lebanon in order to detect areas of need, and where the program has possibilities of interference.*

*Table 2 attached summarizes the total achievements of the rural infrastructure development and rehabilitation component by sub-sector. It is worthy to note in this section that the last six months (September 2000 to March 2001), have witnessed a slowing down in the rate of development of new projects. The main factor attributing to this is the limited amount of funding available for the program.*

**Table 2: Rural Infrastructure Development and Rehabilitation  
Summary of Achievements by Sector  
October 1, 1997 – March 31, 2001**

Sector	Total Output	# of Projects / US \$ amount	Impact Indicator Planned (five years)	Impact Indicator Actual todate
Agricultural Infrastructure and skills training (A)	<ul style="list-style-type: none"> <li>* 174,725 m long agricultural roads</li> <li>* 23gangways ,6 bridges</li> <li>* rehab. of one mill</li> <li>* 4,644 sq.m retaining walls</li> <li>* 71,882 m long irrigation canals</li> <li>* 9 rainfed pools</li> <li>* 3 agricultural demonst. Plot / Prototype farms &amp;21 session agr. training</li> <li>* Rehab.of 11 water sources</li> <li>* Rehab .of two artesian wells with 3 pumps</li> <li>* 7 irrigation reservoirs</li> <li>* One dam &amp; irrigation water pump</li> </ul>	<ul style="list-style-type: none"> <li>* 104 projects completed</li> <li>* 10 projects in execution phase</li> <li>* 3 projects in agreement phase</li> <li>* 3 demonstration/training sites</li> </ul> <p align="center"><b>U.S.\$ 1,753,051</b></p>	<ul style="list-style-type: none"> <li>* 2,706 ha accessed</li> <li>* 2,098 ha reclaimed</li> <li>* 1108 ha brought under irrigation</li> <li>* 987 ha with improved irrigation</li> </ul>	<ul style="list-style-type: none"> <li>* 2,457 ha accessed</li> <li>* 463 ha reclaimed</li> <li>* 654.5 ha brought under irrigation</li> <li>* 819 ha with improved irrigation</li> </ul>
Public works infrastructure and rehabilitation (B)	<ul style="list-style-type: none"> <li>* 12,512 sq.m of road retaining walls</li> <li>* 6,146 m long of drainage canals</li> <li>* 2 bridges</li> <li>* 12 water tank reservoirs</li> <li>* 3 water pumps</li> <li>* 24,770 m long of potable water networks</li> <li>* Rehab.of 2 water sources</li> </ul>	<ul style="list-style-type: none"> <li>* 47 projects completed</li> <li>* 4 projects in execution phase.</li> <li>* 2 projects in agreement phase.</li> </ul> <p align="center"><b>U.S.\$ 739,494</b></p>	<ul style="list-style-type: none"> <li>* 9,353 families with improved potable water</li> <li>* 13,631 families using protected access road.</li> </ul>	<ul style="list-style-type: none"> <li>6,228 families with improved potable water</li> <li>12,631 families using protected access road.</li> </ul>
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 workshops &amp; trainings</li> <li>* Dental hygiene campaign for 6 clusters</li> <li>* Rehab. works for 5 health facilities</li> <li>* Equip,furnitures &amp;tools for 10 dispensaries</li> <li>* Const. of 2 clubs &amp; one football court</li> </ul>	<ul style="list-style-type: none"> <li>* 30 projects completed</li> </ul> <p align="center"><b>U.S.\$ 334,459</b></p>	<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>	<ul style="list-style-type: none"> <li>* 7,690 families served by rehabilitated / clinic</li> <li>* 10,760fam/3340 students served by rehabilitated schools</li> <li>* 1,625 families using new community centers</li> </ul>

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.**

*Owing to the extensive programmatic achievements of the last three and a half years, and for the sake of integration, cohesiveness and clarity, this cumulative report will relay and summarize the information of the previous three years' achievements and highlight in bold/italics the last six months trends, new ventures, and projects developments.*

*In addition, activities financed by the wheat monetization project/USDA 416B, will also be reported as program achievements/ activities in the narrative section of the report only.*

The agriculture skills and training sub-sector has been included in the overall project design due to the fact that it is an essential element for achieving the overall objective of "expanding economic opportunities" for the populations of remote rural areas of Lebanon. Infrastructure construction and rehabilitation alone is not enough for long term benefits; it has to be complemented by human capacity building for sustainable project results.

The objective of the agricultural skills training sub-sector is to increase the productivity of crops, and the return per unit input of production through the use of new methods of production and advanced technologies. The latest developments in farm management research are used in the areas of fertilization, irrigation, mechanization, pest control, and higher yielding seeds.

The agricultural training component has been concerned with the promotion and dissemination of improved farming methods and advanced techniques and assisting farmers in adopting them. The PRRA (Participatory Rapid Rural Appraisal) conducted by the YMCA prior to program implementation concluded that farmers fail in treating their problems because of lack of know how in optimal use of limited resources to achieve maximum productivity and the limited access to recent developments in agricultural practices and technologies. To implement the training activities, three prototype farms in the clusters of Tekrit, Akkar al Attika (Akkar) and El Ain (Bekaa) have been developed. These farms are used as training centers and demonstration sites to promote technology transfer and provide assistance in improved farming techniques in order to optimize agricultural productivity, so that farmers could meet the required quality standards and take advantage of new market opportunities.

*With the extension of the project to cover new areas in the South of Lebanon, a new experimentation/training site is being developed in the vicinity of Btaychiye/Bint Jbeil cluster. Status details of the farm are reported on later in this section.*

#### **Jebrail Farm: Demonstration plot**

*The Rural Development Program, during the last six months, maintained its training activities parallel with the cultivation/ introduction of new crops and crop varieties in Jibrael farm (refer to annex D for a total listing of introduced crops and crop varieties). During the last winter season, the following crops were cultivated in Jibrayel farm: Broccoli: hyb-F1, Spinach: Lenta hybF1, Brussel sprouts: Jade cross, and Lettuce: Lollo Bionda.*

*To assess the potential for improved economic opportunities and net returns generated from the production of the newly introduced cash crops, the YMCA has tested market responses, available sale points, accessibility to farmers and profitability margins. Results have clearly demonstrated that most of the newly introduced crops generate a wider profit margin than the already existing varieties cultivated in the area. Farmers would gain in shifting and introducing the new crops to their own farms.*

*In addition, the program staff are attempting to further extend the training impact achieved so far, by encouraging and monitoring the efforts of some leaders/farmers in the application of the information learned. The program technical experts are assisting and advising selected farmers in the introduction of the newly tested and proven successful crops into their own land.*

*The Jibrayel farm is maintained in continual production. Subsequent actions will ensure the adoption of these crops by the farmers, assistance in sourcing the seeds, and technical follow-up throughout the growing season. Eventually, farmer's groups will be introduced to the different perspective sales points armed with the required packaging conditions, sales and payment requirements.*

### ***Training Sessions***

More than **300** farmers from eight different villages have attended the on-farm agricultural training sessions conducted in Jibrayel farm **up till March 31<sup>st</sup>, 2001**. Training sessions details are reported in annex D at the end of this report. In addition, supporting/complementary information is scheduled to be provided through additional training sessions during the following spring and summer season.

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

Two demonstration plots of fruit trees have been established in Akkar al Attika (Akkar cluster) and Nabi Osman (Al Ain cluster in the Bekaa). The overall objective of these plots is to assist growers in adopting modern orchard practices and encourage them to progressively make the transition from old to modern varieties that are more competitive in both local and export markets.

These farms of 100-150 fruit trees are new varieties propagated on clonal rootstocks with variable dwarfing characteristics that permit high planting density. The considered varieties are highly productive, ultimately resulting in a higher yield and better quality. Details of the cultivation practices and fruit tree varieties introduced in these farms are reported in annex D.

### *Training Sessions*

**Twelve training sessions** and four training packages have been provided so far. A total of **174 farmers/growers** from Akkar cluster and 208 farmers/growers from Al Ain cluster participated in these training sessions. Annex D at the end of this report summarizes the topics covered, their objectives, and the number of participants who attended the sessions. Adopting all the improved and modern practices of soil management, better tree varieties, integrated pest management, orchard owners will be able to produce and uniformly pack blemish-free fruit that is now standard fare in supermarkets store.

### **Off farm training**

In addition to the on-farm conducted sessions, the YMCA Integrated Rural Development Program has organized special sessions in the remaining clusters that responded to the farmers' requests and needs in Tannoura and Ksaybeh. The training sessions were mainly targeted at olive tree growers. These sessions have attracted 78 participants from 5 different villages and are listed in the same annex referred to above.

### **Expansion of the Agricultural Activities to the South of Lebanon (USDA 416 B)**

With the added program financial allocations from the USDA wheat monetization fund, and based on the new program directives focused on the newly-liberated areas in the South of Lebanon, the YMCA staff has conducted a Participatory Rapid Rural Appraisal (PRRA) in the selected clusters to investigate existing problems/outstanding needs, and devise alternative solutions in partnership with the local populations to determine future courses of action.

A summarized review of the survey major conclusions in the agricultural field reflected the following:

1. The majority of the remaining populations' economic livelihood depends mainly on agriculture and animal husbandry.
2. The area lacks natural water resources and is dependent upon rain fed crops.
3. Rainwater is accumulated during the winter season in containment pools to provide for water needs for irrigation and other uses during the summer.
4. Aside from tobacco, the main plantation grown in the area is olive trees.
5. The economic situation of the local inhabitants is becoming more critical with the passing of time.

### **Developed Agricultural Strategy**

Based on the survey findings, and in joint partnership and coordination with the concerned local and village committees, the YMCA team, in consultation with senior agricultural consultants has developed an agricultural strategy to improve the prevailing conditions in this sector. This strategy has been based on careful consideration of (1) available local natural resources and (2) existing financial constraints within the program. The initial implementation of the developed agricultural strategy has targeted the Bint Jbail cluster since the villages covered in this cluster were the hardest hit by the prevailing economic conditions. The program strategy aims are as follows:

- To assist farmers through the introduction and training on cultivation practices of new/improved varieties of already existing plantations.
- To introduce new alternative crops such as saffron and scented roses.
- To develop new beekeeping practices for added income through training.
- To upgrade farmers' skills through viable technology transfer and through training on improved agricultural practices.
- To encourage work through cooperatives and assist existing cooperatives in the purchase and use of new equipment and techniques

Activities which have been designed for the implementation of the above strategy emphasized the integrative approach in the development and execution of the various complementary actions. Provision of new varieties of olive trees was coupled with a required training package on the cultivation practices delivered to the farmers/beneficiaries. Training on improved beekeeping practices assisted farmers with the provision of essential small scale tools. These projects were formulated in an integrated, sustainable manner that could best meet the farmer needs for improving and providing new sources of income and in decreasing the cost of production and in increasing revenue from newly developed varieties and practices. The various projects currently under implementation are :

### **1- Introduction and training on planting new tree varieties: olive, carobs and Laurus**

**Objective:** Introduction and distribution of new high yielding varieties of already existing trees. Selected varieties were chosen because of their high potential for processing with a higher return value.

**Proposed tree varieties:** Carobs, Laurus trees as well as Olives from the highly rated varieties: Ascolana, Manzanella and Picholine. These olive varieties are remarkable for their high yielding capacities, greater fruit size and suitability for processing.

**Selection Criteria:** (1) farmers/owners of 5 to 10 dunums of land and living in the targeted villages, (2) willingness to share in the cash cost of the trees, (3) quantity requested adequate for 1000m<sup>2</sup> of land, (4) compliance to attend future training sessions, (5) Maximum request/order per farmer not to exceed 30 trees.

**Geographical coverage:** Dhaira, Yarine, Zalloutieh- el bustan, Marouahine and Hanine/Bint Jbeil cluster.

**Beneficiaries:** 51 farmer/beneficiary formally requested participation in the proposed activity

A total of 2,190 fruit tree varieties of Olives, Carobs, and Laurus, were distributed in the targeted villages on February 18<sup>th</sup>, 2001 to 51 participating farmers. Beneficiaries participated by a cash contribution fee of 20% of total tree cost. So far, the total cost of the project amounted to US\$ 13,469, of which US\$ 10,702 was paid from the program fund, and the remaining amount of US\$ 2,767 was covered by the local cash contribution.

Concurrent with the distribution of the trees, a training session was conducted to the farmers detailing (1) the advantages of these varieties referring, specifically, to the processing possibilities of the final produce and (2) correct planting procedures for the newly introduced trees. Following this activity, the rural development program committed itself to accompanying olive growers throughout the season, assisting them through scheduled training sessions to cover all phases of the growth of the trees.

In addition, the YMCA staff is currently in the process of preparing a training package to be delivered to interested women in the selected villages. The training program will lay the ground for the initiation of a processing center to be operated by the women trainees themselves. This center will focus on the processing of stuffed olives, carob for Molasses, and Laurus for oil extraction. This activity will ensure sustainable economic impact for the farmers of the region.

### **2- Introduction to Beekeeping Practices for additional income (on going)**

Following recommendations of senior agricultural consultants, and in response to specific requests of local farmers, the YMCA rural development program is launching a training program for Beekeeping practices in Houla region in the Bint Jbeil cluster.

This activity aims at introducing and expanding beekeeping operations in four villages of the Bint Jbeil cluster namely Houla, Markaba, Robb talatine, Talloussa, and Beni Hayan. The training program will

assist farmers in fostering beekeeping knowledge, and instilling aptitudes for raising bees in order to ensure an additional support income for the local farmers.

The training activity is an integrated package where regular attendance of the trainees is an imperative requirement to gain adequate technical knowledge for beekeeping. The training package is spread over 10 interrelated training sessions, to be provided over a 5 month period. Each session covers one topic and ensures a hands-on practical training on the various technical practices. Various tools and small equipment will be provided during the sessions as an incentive to the regular participants, and to lessen the financial burden involved in the start up cost of beehives.

The project was launched in March 2001, and will be continued over the following 5 months.

### 3- Improving Beekeeping practices (on going)

The main objective of this activity, which was also recommended by technical advisors following the survey results, is "to upgrade the knowledge base of motivated beekeepers willing to gain know-how in improved production techniques. The project is aimed at addressing needs of practicing beekeepers by seeking to refine their technical skills, and improving their manners of production in order to diversify their products and help them to produce more efficiently at lesser costs.

This activity is implemented in the area of Bint Jbeil and covers beekeepers from the surrounding villages. Interested applicants are committed to regular attendance and participation in an integrated training package to be delivered throughout 15 interrelated training-sessions.

Ultimately, the objective, after completion of the training, is to initiate, equip and operate a honey processing center with all the available machinery for honey extraction, melting wax and producing royal jelly. The initiation of this center will depend upon the trainees' capacity to sustain the operation. Sustainability criteria will rely on the trainees' aptitude for group work, future maintenance and operation of this center for the benefit of the cooperative members and all the beekeepers in the area.

The training sessions were launched in March 2001. 23 beekeepers have committed to regular attendance. Trainees are expected to complete the training by September 2001.

### 4- Btavchiye Farm (Under Development)

Alternative crops to growing tobacco in South Lebanon is one of the major problems facing the area. The Btavchiye farm is being developed as an experimentation and training site for the introduction of new crops and/or crop varieties, as well as encouraging local farmers to shift and replicate the new agricultural prospects in their own farm. Moreover, the demonstration plot will provide a testing and training opportunity for the farmers on the new introduced varieties, and possibilities for skills transfer before final adoption of the new crops in their own farm

The Btavchiye farm will introduce:

- Testing Saffron as an alternative cash crop.
- Introduction of scented flowers (especially Rosa Damascena) for essential oil extraction.
- Introduction of new aromatic crops essential for the Lebanese and international cuisine.
- Possibilities of producing selected types of vegetables given available water limitations.

The rural development program, once testing the proposed alternative crops proves viable, plans to disseminate the experience and encourage these plantations in the South of Lebanon especially in the Bint Jbeil cluster as a replacement for tobacco growing. Plans include the training of farmers on the plantation of these new crops.

### 5- Equipment and training for olive cultivation (Under Development)

Olive cultivation is widely spread in the region. However, farmers are still lacking the rudimentary manners of growing trees. The YMCA's training package will cover these issues, ensuring convenient technology transfer for olive growers, and updating their knowledge of the newly established practices

for fertilization, weeding, pests and disease control. This training package will also cover farm management techniques for olive orchards.

Moreover, the training sessions will include demonstration on new devices for olive harvesting with the future potential of equipping the cooperatives with such equipment. Mechanized olive harvesters will tremendously minimize labor requirements during harvest periods, thereby ensuring lower cost for fruit harvesting.

## **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: (A) skills training in cottage industries and (B) the establishment and operation of a marketing and sales unit for the products of the cottage industries. \*(A) 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. \*(B) The Marketing Unit is in charge of implementing 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. Finally, the marketing unit is also serving as an advisor to the groups.

### ***Status of implementation and achievements for the period ending March 31, 2001:***

To date, after three and a half years of program implementation, and while reviewing this section’s major achievements, it is clear that the “Agricultural Income Generation for women” component of the IRDP program has achieved its major objectives, as stated in the project proposal, and as summarized above. ***The past six months of project implementation have been devoted to increased efforts in the marketing/sales, and large- scale production of the food consumer items.***

A brief and summarized review of activities conducted within this component to date and total achievements would be as follows:

- ***476\* women from all regions of the country have been trained in scientific and hygienic food processing techniques*** (training session details are reported in table 4 which follows). ***New tailor cut training sessions, are under preparation, to be conducted in the new/expanded clusters. Additional allocations to fund similar activities in the new areas have been made available from the wheat monetization project.***
- Approximately 32 women’s groups have been organized into production units. 15 of these groups have already been registered as legally recognized cooperatives or women’ organizations. The on-going and continuous organizational process is expected to further increase this number with time.
- 79 consumer products have been standardized and introduced in the sales market
- ***Participation in more than 11 food exhibitions and numerous professional promotional campaigns have assisted in launching the Rural Delights brand in the market***
- Six production centers have been initiated and developed in joint cooperation with 4 cooperatives and 2 women organizations. The centers have been adequately equipped with semi-automatic production machinery to facilitate quantities production

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***\*This number represents women trainees from the clusters only. The total number of women trainees to date has reached the high number of around 1000 women.***

- *Large-scale production of the six processing centers and the various women groups, during the year 2000 season, amounted to : 75,000 units of food consumer items and around 15 tons of bulk quantities to be sold unpackaged in the marketplace.*
- *The 2001 season production plans to triple the quantity of final products produced in the year 2000 (quantities produced are based on forecasted levels of sales) and to process more than 1000 tons of raw fruits and vegetables.*
- *Rural Delights wide selection of consumer products have already been introduced in more than 20 major sales points in various geographical areas of the country, in addition to health food stores, hotels, restaurants and large consumption facilities.* Continuous marketing efforts are expected to open access to export markets namely Saudi Arabia, Dubai and Abou Dhabi in the near future.

The loop is finally complete and uninterrupted. Women skills training is followed with group formation and cooperative registration, marketing research studies assist in brand, logo and label designs, professional supervision and counseling aid in setting up legally operating production centers, product quality standardization and large-scale professional production have managed market penetration: “**Rural Delights**” wide selection of food products are finally on shelf displays in some of the most important, first class, large surface areas. From agricultural production to consumer markets, the loop of project economic sustainability has been achieved. An interesting and unexpected breakthrough is that, the process is starting to feed back into itself: instead of seeking ways to process the often wasted agricultural production, the production centers are actually advising the farmers on the selection of the products to be cultivated. Market feedback has led the centers to seek different varieties of agricultural produce that are more in demand and could generate higher profit margins than the farmers’ traditional produce.

This program component has been in high demand both within the YMCA clusters of communities as well as outside their geographical scope. Numerous national and international organizations (IFAD, UNDP, among others) have approached the YMCA seeking the YMCA expertise for the replication of this activity, in other areas, and for other women beneficiary groups. International organizations have also extended credit to the women groups trained by the YMCA program because of their confidence in the women’ capacities to use the credit wisely, generate profit, and finally return the capital plus interest.

Finally, to conclude reporting on this component of the Integrated Rural Development Program, IRDP, we can safely confirm that targeting assistance to rural women, through the above detailed sequence of activities, has proven 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.

In addition, the program provides viable solutions to two widely recognized major problems in the rural areas: First, surplus unsold agricultural production; and second, rural women’s lack of access to work and opportunities for economic productivity.

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\*\*Narrative sections in bold/italic denotes activities/numbers which have been modified in the last six months under review

**Table 3: Agricultural Income Generation for Women  
October 1, 1997 – March 31, 2001**

Cluster	Location	# of Trainees	# of Villages	Training Days	# of Trainers	Amount Allocated \$	Local Contrib. \$ *	Total Cost (\$)	Status
V	Ksaybeh	38	2	28	17	11,443.50	1,000.00	12,443.50	Completed
V	Kfarsyr	41	3	28	17	13,365.00	1,000.00	14,365.00	Completed
III	El Ain	42	2	23	12	9,542.00	1,000.00	10,542.00	Completed
III	Fakiha	25	2	23	14	7,740.50	1,000.00	8,740.50	Completed
VI	Ain Atta	42	4	21	15	8,951.50	1,000.00	9,951.50	Completed
VI	Ain Atta	57	4	21	15	7,256.50	1,000.00	8,256.50	Completed
II	Tekrit	49	1	22	10	7,291.00	1,000.00	8,291.00	Completed
II	Jibrael	27	3	22	10	5,441.00	1,000.00	6,441.00	Completed
I	Akkar El Attika	43	1	23	10	8,125.00	1,000.00	9,125.00	Completed
I	Koss Akkar	30	2	23	10	8,501.00	1,000.00	9,501.00	Completed
VI	Beit Lehya	31	3	26	9	13,700.00	1,000.00	14,700.00	Completed
IV	Bint Jbeil	51	6	24	11	11,071.00	1,000.00	12,071.00	Completed
Totals:		476	33	284	--	112,428.00	12,000.00	124,428.00	--

\* Includes the estimated cost of rent, water and electricity during the training period.

***B) Marketing: Promotional stands and exhibitions***

Location	Activity	Amount Allocated (\$)	Local Contrib. (\$)	Total Cost (\$)	Status
Beirut 17-21 March	Promotional stand: Beirut Hall Exhibition	5,374.00	--	5,374.00	Completed
Zouk 4-13 Sept.	Marketing stand: homemade products exhibition	4,001.00		4,001.00	Completed
Beirut 20-24 April	Promotional and Marketing stand: Beirut Hall	4,519.00	--	4,519.00	Completed
Saida 1-9 May	Promotional & Marketing stand: Al Rabih Exhibition	1,150.00	--	1,150.00	Completed
Beirut/AUB 24-26 May	Promotional stand: AUB	83.00	--	83.00	Completed
Tyr 1-11 August	Promotional & Marketing stand: Mouneh Exhibition	500.00	--	500.00	Completed
Beirut 4-8 April 2000	Promotional stand: Beirut Hall Exhibition	5,513.00	--	5,513.00	Completed
Fakra 18-20 August 2000	Promotional Stand: Fakra Club Exhibition	--	150.00	150.00	Completed
Beirut 3-6 April 2001	Promotional Stand: Beirut Hall Exhibition	4,500.00	--	--	Completed
Nabatyeh 7-17 September 2000	Promotional Stand :13 <sup>th</sup> of Aljanoub Exhibition	--	150.00	150.00	Completed
Promotional campaign 6 sales points; 61 days		12,118.00	--	--	Completed
<b>Totals:</b>		<b>37,758.00</b>	<b>300.00</b>	<b>38,058.00</b>	<b>--</b>

<i>C) Income Generation &amp; Food Processing Centers</i>				
	<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	26,963.35	3,000.00	28,000.00	Completed
Kfeir Beekeeping & Honey Production Center	26,000.00	7,500.00	32,500.00	On-going
Ksaybeh Distilling & Food Processing Center	13,601.00	3,000.00	16,601.00	Completed
Fakiha Food Processing/Trout Smoking Center	22,658.00	4,000.00	29,000.00	Completed
Khelwat Food Processing/Olive Bottling Center	27,614.00	3,000.00	23,000.00	Completed
Tekrit Food Processing/ Solar Drying Center	27,000.00	2,500.00	27,500.00	On-going
<i>Totals: 6 production Centers</i>	143,836.35	23,000.00	166,836.00	--

### **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 and women, 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 wastewater management pilot projects as well construction and rehabilitation of e control infrastructure, such as culverts and retaining walls (to prevent soil erosion).

#### **Status of implementation and achievements for the period ending March 31/2001:**

The last six months under review, i.e from September 30, 2000 till March 31, 2001 (winter season), witnessed a slowing down in the construction of most of the infrastructural works covered under this component due to the harsh winter weather. The program focus of activities during this period centered mainly around execution of committed projects, and replication of the successful pilot projects in the field of solid and wastewater treatment.

The third phase (third year) of program implementation has confirmed the viability of the environmental strategy developed and implemented by the YMCA program in rural areas mainly: low cost pilot projects, consistency with local context, applicability, sustainability and possible replicability.

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). Updated and summarized programmatic achievements under each segment will be developed in the following section of this report.

Moreover, the fourth phase of program implementation witnessed a geographical focus of activities, in the environmental field, in the Southern zone of the country.

**Component quantitative achievements:** In summary, projects implemented in the environmental sector of the rural development program have undertaken and achieved the following to date (March 31, 2001):

Reforestation campaigns with relevant educational and promotional activities covering 4 clusters (Bint Jbeil, Kfarsyr, Akkar, Tannoura) encompassing 17 communities in which approximately **9,585** nursery trees were planted

Construction of three wastewater treatment systems with related sewage networks for three villages. Already, two are in operation, whereas the remaining one will be running during the summer.

The first pilot solid-waste treatment center using the 'dynamic composting' technology has been successfully operating in Kfarsyr for the last year and a half. Some mechanical problems were encountered and are in the process of being resolved. Replication of Kfarsyr facility is currently underway in two other cluster wide projects namely, in Akkar Al Atika and Mays El Jabal.

The "water mapping and quality analysis" survey was finalized in the cluster of Tannoura and followed up with a training workshop. Currently different treatment technologies are being researched and evaluated.

Rehabilitation of a natural water source and construction of a related public park was completed and two similar initiatives for public parks are now in the construction phase.

A joint venture with the Ministry of Environment resulted in a partnership with three national NGOs for the implementation of two environmental projects in Akkar and Tekrit clusters.

**Details of two of or some these projects will be narrated at the end of this section.**

Related and complementary activities in the environmental field, such as workshops, and dissemination of solid waste containers, training and awareness campaigns were designed and executed in various locations.

A summary of all the activities implemented under the Community Environmental Management component can be found in Table 4 below and the corresponding full details located in Annex B enclosed with this report.

**Table 4: Community Environmental Management  
October 1, 1997- March 31, 2001**

Sector/Area	Activity Description	U.S.\$ Amount
Restoration of green cover	Reforestation in 4 clusters of 9585 trees	28,234
Environmental protection	4 solid waste treatment centers 3 water waste treatment systems and related networks	1,078,684
Awareness/capacity building	Training on reforestation, pesticide use, waste management and capacity building/ workshops, conferences	32,609
Complementary activities	Solid waste containers, water source and three parks and one pine forest, water mapping/analysis + environmental activities	95,068
<b>Total U.S.\$:</b>		<b>1,234,595</b>

**Narrative developments of selected environmental initiatives**

The following narrative section is an update on the implementation, monitoring and evaluation status of some selected projects developed under this component.

**Applied Environmental Awareness: A Youth Contribution towards Sustainable Development**

**The following initiative was the outcome of a partnership agreement/venture between the YMCA, the Lebanese Ministry of the Environment and local and national environmental NGOs. Its objective focused on promoting local community awareness and capacity building of local organizations.**

The preliminary phase assessed, from the local perspective, the major environmental problems prevailing in Al Joumeh area in Akkar. Rahbe village was identified as a possible site for the implementation of a pioneer venture in the environmental field: The village provided a suitable background for the successful implementation of activities which promoted environmental awareness, involved youth organizations, and implicated the local municipalities. The local partner organizations being considered presented a high possibility for learning, and insuring future sustainability of the project environmental benefits. The project's activities were tailorcut according to Rahbe's environmental needs and problems, and the youth organizations' abilities and limitations.

The primary phase implemented a needs assessment and PRA which identified the following problem areas: (1) lack of environmental awareness, (2) lack of public green spaces, and (3) deforestation.

In order to respond to the above-identified needs, the project in partnership with the local youth organizations initiated a set of varying activities. The activities included a training workshop on

environmental education techniques, constructing a tree nursery and a green area, and planning for activities within the nursery and the green area. In addition to producing a series of brochures publishing articles in the local newsletter and preparing for a Health and Environmental Fair/Festival.

This initiative has been successful in bringing all the village stakeholders together in a partnership approach. In addition to the different youth groups involved in this venture, the village municipality played a major role through the donation of a plot of land to house the tree nursery.

*Water source mapping, quality analysis and protection in Akkar*

Qada Akkar is famous for its rich natural water resources, unfortunately a more in-depth look at this issue reveals that most water sources are being lost, misused and/or contaminated.

Stemming from this need, the project was designed to implement three basic activities:

- 1- Locate, and map the water sources in the identified villages
- 2- Test the physical and bacteriological characteristics of the selected and sampled water sources.
- 3- Identify the sources of contamination through scientific analysis of the laboratory results

Research results have currently identified water sources safe for human consumption, and located water sources, which present dangerous health hazards to the local population. Research results are currently being compiled to be presented to the local stakeholders in public meetings where recommendations for action will be presented. The scientific material presents a basis for intervention: either through adequate protection of the contaminated sources when possible, or through water treatment also when possible. Ultimately, the local population would become aware of the contaminated sources.

At present, an awareness kit including the results and relevant information about water sanitation is being prepared and public meetings and dialogues are scheduled to be organized, in each village, in the near future. The outcome will be a set of specific actions, chosen together with the people, in order to protect or treat certain water sources.

*Replication of SWTC (Solid Waste Treatment Center)*

The persisting problem of non-sanitary and non-aesthetic solid waste disposal in rural areas means that solving the problem of solid waste continues to be a major priority in all of the targeted rural areas. Clusters of villages are meeting and requesting the implementation of a center similar to Kfarsyr, 'the success story'. The YMCA technical staff is currently planning the implementation of two Solid Waste Treatment Centers SWTC in Akkar El Atika and Mays El Jabal.

The replication of Kfarsyr SWTC is the product of a rich and deep experience. All the improvements that have been introduced to the process would not have been experienced without follow up and commitment by the people. The following activities are being integrated in the replicated projects:

- An Environmental Impact Assessment Study is being prepared for each site.
- A Community Awareness and Participation Project is being initiated parallel to the infrastructure development.

The realization of the Kfarsyr SWTC, has presented a model for solid waste management in the Lebanese rural areas. Its impact goes beyond the simple treatment of solid waste to become a model application to follow for low tech approaches and local governmental organizations commitment and participation in resolving their problems at the local and national level. Micro pilot projects could convince the government of Lebanon that many of the country's problems could be solved without macro-multi million dollar projects.

*Concluding Remarks:* Upon assessing the end results of the overall program activities developed under this component, it is clear that a lot has been achieved so far, specifically in the area of projects piloted and replicated in the fields of solid and water waste treatment. 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. Further and continuous efforts are still needed for local institutions' capacity building and promotion of environmental awareness in rural areas. Know how, skills, attitudes, and behaviors need to be shared and built at the local level for any development initiative to be sustainable.

## **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, 2001***

During the last three and a half years of program implementation, on a cumulative basis, the component under review managed to hold a total of 33 major training events, which involved 119 training days and involved 1,172 participants.

In addition, a capacity-building program delivered to municipalities, has provided training to 54 municipality staff and elected council members, and provided office equipment to 16 municipalities. A complete listing of the diverse activities undertaken under this program component is found in table 5 at the end of this section. Most of the activities implemented during the last six months have focused on maintaining the benefits already achieved, building on them, and providing synergies with the program overall structure. Moreover, new activities are being implemented with the objective of moving the training and empowerment process a step further and achieving increased sustainable impact.

Once again, owing to the extensive amount of information enclosed with this report, and in order not to overburden the reader with repetitive information, this report will be concerned with developing only the program new ventures currently being developed and/or implemented under this component of the Integrated Rural Development program, and followed by list a summary update of the major training activities implemented thus far (table 5).

### **Narrative developments of new program trends and activities**

#### ***I-Eco-tourism: New Development Perspective for Rural Areas***

One of the new program perspectives, currently under development, and considered as a potential instrument for rural economic development and environmental conservation is **eco-tourism**.

Tourism and related touristic activities have become one of the major cultural and economic forces in the world today: Tourism is big business; developing countries earned about US\$ 55 billion from tourism in 1988, of which US\$ 12 billion was derived from nature based tourism.

Lebanon's revenues from tourism in the 1970s totaled 20% of the country's GNP and current private and public efforts are attempting to regain the country's privileged pre-war position in this sector. Until recently, the major tourist attraction sites have been centered mainly on the major historical/archeological localities such as Baalbeck, Sidon and Tyre without consideration of prospective potential for **eco-tourism** still underdeveloped.

Experts agree to define **Eco-tourism** as “**Tourism that has a low-level impact on the environment and local, cultural values and which is used to help sustain local economies and the conservation of the natural and built heritage**”

The definition of **Eco-tourism** incorporates concepts associated with sustainable development, and attempts to integrate economic development with ecological sustainability i.e. “development that meets the needs of the present without compromising the ability of future generations to meet their own needs”.

**Eco-tourism** benefits can be summed up under two major objectives:

- ◀ Sources of income to the local communities (directly and indirectly)
- ◀ Raising awareness/increasing appreciation of nature conservation by decision makers and local people

The two developmental goals of eco-tourism —conserving the environment and benefiting local people—are increasingly seen as interdependent. Without economic development, environment conservation is neither ethical nor sustainable. Eco-tourism has an idealistic agenda: it can be defined as progressive, educational travel, which conserves the environment and benefits local communities. Eco-tourism is widely promoted as a win-win development strategy for underdeveloped rural areas. The two main players in any eco-tourism endeavor—the hosts and the guests—are driven by differing motivations. The local population hopes to improve its own lot by taking advantage of the curiosity, disposable income, and in some cases, perhaps, good intentions of ecotourists. The tourists want “to explore the natural wonders of the world”.

Eco-tourism has become popular among tourists as an alternative to conventional tours and in many governments and communities as a development tool. Tourists are on the look out for pristine, primitive areas untouched by modernity: for many tourists they are best found in geographically remote and culturally unique places and people.

In contrast to mass tourism, eco-tourism permits tourists to seek educational self-fulfillment in the form of travel, and tries to transform that activity into something that benefits the greater good—specifically, to fund environmental preservation, rural development and even cultural survival.

#### *Pilot initiatives in Eco-tourism Activities in the Western Bekaa Region*

While researching economic alternatives in rural areas, the program staff came across possibilities of developing eco-tourism activities in specific areas of the Western Bekaa region. These localities present an ideal environment for the promotion of eco-tourism initiatives and activities:

- \* Accessibility: The cluster of villages is located 40 km from Chtaura and can be accessed through the Rachaya main artery road. The site is close to Masnaa, a major checkpoint entry to Syria, where a large number of tourist groups are transiting every day.
- \* Archeological and Historical sites: Villages are located at the base of Mount Hermon mountain, an area that used to be a religious place in ancient times. Unprotected historical remains are splattered around, and possibilities of unearthing, developing, and protecting additional and existing sites are high. (Refer to the annexes of this report for photos of some relevant sites).
- \* Traditional and Cultural preservation: Targeted communities are still maintaining the old, traditional, rural Lebanese customs, culture and way of life (refer to photos).
- \* Natural environment: The site presents some breathtaking, natural surroundings with a variety of snow covered mountains, and extended plains.
- \* Open, natural space, and summer warm weather suitable for open-air activities.
- \* The villages being considered for this pilot project are: Aita al Foukhar, Yanta, Bekka, Mdoukha, Khirbet Rouha, and Ain Aarab. These communities have recently been included in the YMCA cluster of Western Bekaa.

Possible eco-tourism activities in the area are: Trekking/hiking, mountain biking, archeological site visits, natural and cultural visits, camping, experiencing traditional rural living, bird watching, out door games.

Possible/future tourists are: Summer vacationers, youth groups, tourist groups seeking eco-tourism activities, urban Lebanese seeking immersion in a natural environment, groups with a specific objective such as sports, exchange, ecology, archeology...

Economic Gains for Communities would be derived from tourist-oriented businesses such as selling native made products, lodging income, stimulating local trade, possibilities of employment, development of communities' infrastructure, i.e. activating local economies.

Current Program Status: The program staff have finalized, in partnership with local committees, an in depth survey of the locally available possibilities reference, archeological sites, local customs, natural sceneries, etc. It has encouraged communities in the area to develop eco-tourism projects to take advantage of this new economic opportunity and to divert some tourist traffic to their area.

Currently, a physical needs assessment is in progress to assess the cost of building and rehabilitating an infrastructure suitable for tourist activities. The next phase will be concerned with (1) the development and implementation of an integrated package of indigenous eco-tourism activities, (2) building an adequate infrastructure for tourism, (3) and finally, linking the would-be available tourist activities to professional tour agencies.

## ***II. Public Issues, Civic Knowledge & Participation***

### *Program Rationale*

The complex economical and political conditions, challenges and issues facing Lebanon lately could be best resolved by informed and responsible citizens. Strengthening the civic knowledge and attitudes, and building the country's social capital are key entry points for any sustainable development in rural areas. Revitalizing civil society means rekindling people's trust in political processes and strengthening their civic attitudes and skills needed to understand the situation, to overcome the problem and to propose solutions.

Civil society in Lebanon is active, but effective democracy will require overcoming a long tradition of antagonism between the state and the people. The process of how the citizens relate to government and to parliamentarians and how the elected officials relate to their constituencies has to be addressed.

Equally important is the question of how groups, historically excluded from decision-making such as youth and women, could participate in public life and organize their civic participation. To overcome the ingrained acceptance of subordination and exclusion, it is necessary to nurture a political consciousness grounded in enhancing the citizen's rights and responsibilities. For women and youth, empowerment means helping them discover their own power and capacities and enhance their involvement in their family, community and their participation in public life.

Lebanon, more than ever, needs to prepare and empower the young generation along with marginalized women, to deal properly and positively with the challenges of a divided and diversified culture. They need to know how the political systems work; they need to put things into perspective and to learn to fulfill their responsibilities and to request for their rights. But cultivating democracy is a complex process of dealing not only with knowledge but also with values and beliefs. It is a gradual process that needs to be driven by the citizens themselves.

### *Program objectives*

- Sensitize targeted groups (women and youth) on public issues.
- Rekindle their interest and awareness of the political system mechanisms in Lebanon and how decision-making is made on policies issues.
- Strengthen their civic knowledge and attitudes.
- Revitalize their participation in promoting democracy and in assuming their rights and responsibilities.

### *Targeted Groups*

- Youth Groups already involved in "the education for development/youth empowerment" sector of the rural program
- Women trainees of "the cottage industry" component of the rural program

Both groups are involved with the rural development program and have already received extensive training in group development, and community empowerment.

*Program activities*

Focus groups, training for trainers sessions, material development and sharing will help interested youth and women in the cluster areas to understand the role of parliament in democracy and in policy formulation, how the parliament operates, and how decisions are reached. An accompaniment process will target groups' knowledge and involvement in local governance, making them aware of the roles and responsibilities of elected municipalities and their role and potential in local governance.

*Program status*

Different focus group meetings, attended by youth and women's representatives from various rural areas, have already explored priority topics and investigated with program beneficiaries best implementations approaches and modalities.

The next phase will be concerned with:

- Development of information booklets on the three topics chosen:
  - Roles, responsibilities and mode of operation of parliament and parliamentarians.
  - Local governance
  - Cooperatives and how to enhance the management of productive cooperatives
- Organization and implementation of training for trainers sessions

The third phase will follow up the newly formed trainers throughout their action within their local environment: moderation sessions, awareness training, public gatherings, etc.

The fourth and final phase will involve further follow-up and evaluation sessions including meetings with actual parliamentarians and even the speaker of the house

**Table 5: Civic Participation & Community Education**  
**October 1, 1997 – March 31, 2001**

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 Attika (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 Attika (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.

Code	Cluster (and location)	Date	# of Participants	Activity Title	Format	Objective
CP 16	El Aïn 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
CP 17	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
CP 18	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
CP 19	El Aïn (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
CP 20	El Ain (Nabi Ousman)	31/10/1999	40	Education for development/ youth empowerment	Training/2 nd phase	Diagnose needs and suggestion for developmental plans
CP 21	Tannoura (El Kfeir)	7/11/1999	28	Education for development/ youth empowerment	Training/2 nd phase	Diagnose needs and suggestion for developmental plans
CP 22	Kfarsyr (El Ksaybeh)	14/11/1999	17	Education for development/ youth empowerment	Training/2 nd phase	Diagnose needs and suggestion for developmental plans
CP 23	5 Clusters	1999	54	Provision of equipment & computer training for 11 municipalities		
CP 24	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.
CP 25	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.
CP 26	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.
CP 27	5 clusters(7clubs) El Ain, Tannoura, Kfarsyr, Akkar El Attika, Tekrit	19-20/ 2/2000	25	Project selection development, & execution design	Training seminar/2 <sup>nd</sup> phase	Responding phase: identifying, planning and securing financial and legal support for development plans and actions.
CP 28	Kfarsyr & Tannoura (Ras El Metn)	10-12/ 7/ 2000	12	Volunteer work camp director	Training camp	To train and prepare youth leaders in planning, organizing, and implementing summer work camps in their clusters.
CP 29	Kfarsyr (Ksaybeh)	20-29/ 7/2000	40	Finishing works for a 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

Code	Cluster (and location)	Date	# of Participants	Activity Title	Format	Objective
CP 30	Tannoura (El Kfeir)	4-13/8/2000	30	Rehabilitation works for the village pine forest	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
CP 31	Tannoura (El Kfeir)	29/12/2000	20	Youth empowerment for community work	Workshop – training	Accompaniment processes for assessing, writing and implementing a community project.
CP 32	El Ain (Nabi Osman)	30/12/2000	24	Youth empowerment for community work	Workshop – Training	Accompaniment processes for assessing, writing and designing a community project.
CP 33	El Ain (Nabi Osman)	4/3/2001	43	Implementation of community volunteer activities	Workshop – Training	Assisting newly trained youth nucleus in launching the library activities and a related series of conference
CP 34	Tannoura (El Kfeir)	11/2/2001	18	Implementation of community volunteer activities	Workshop – Training	Assisting newly trained youth nucleus in launching a blood type testing campaign
CP 35	3 clusters (Akkar El Atika, Nabi Osman, Kfarsyr)	17-18/2/2001	27	Public issues, civic knowledge and participation	Focus group	To explore priority topics and investigate with program beneficiaries best implementations approaches and modalities.
CP 36	Kfarsyr (Ksaybe)	25/2/2001	35	Youth empowerment for community work	Workshop – Training	Accompaniment processes for assessing, writing and designing of a community project.
CP 37	Kfarsyr (Ksaybe)	Planned	30	Implementation of community volunteer activities	Workshop – Training	Assisting newly trained youth nucleus in researching and documenting village cultural and historic background.
Total		119 days	1226 partic			

## PROGRAM IMPACT INDICATORS

In agreement with USAID's "Lebanon Country Development Strategy" the YMCA has been using a set of critical indicators corresponding to the planned outputs of each project segment implemented under the Integrated Rural Development Project. With the assistance of a consultant, and in joint partnership with the five NGOs, agreement was reached on a set of indicators which will reflect the impact of the activities and overall progress on each component. The impact indicators listed below 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 impact achieved to date.

### **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)  
                          1.1.1.a: New hectares brought under irrigation  
                          1.1.1.b: New hectares accessed  
                          1.1.1.c: New hectares reclaimed or terraced  
                          1.1.1.d: 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/workshop

**Table 6** which follows is a summary schedule of total project achievements by sector, relative cost, level of contribution, end of project and actual to date monitored impact indicators as assessed and measured by the project staff as of March 31, 2001. It should be noted that the column heading referred to as "Planned October 97" refers to the original expected impact as set in the project proposal. Whereas the column heading referred to as "Actual Plan" refers to the total forecasted impact of each activity as soon as it gets approved for funding and execution; it is simply the sum total of all the projects under execution and which are detailed in annex B.

**The information listed in table 6, which follows, clearly indicates that project achievements reference impact indicators have exceeded the forecasted expectations (compare numbers in column "planned October 97" versus column "actual plan") specifically in the agricultural sector and the social infrastructure component of the program.**

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

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

Community involvement in project financing is an important indicator of local commitment which ultimately guarantees the feeling of ownership and the long-term sustainability of any 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 continuity once the implementing agency has withdrawn from the project area.

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 around 40% of total project cost. Concurrently, total local contributions constitute on average 40% of project financing but, this percentage increases 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.

**After three and a half years of program implementation, the following actions have been identified and approved for funding and execution under the Integrated Rural Development Program:**

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

The total direct cost of the 226 above actions is currently estimated at US\$ 6,615,522 (100%). An amount of US\$ 4,061,564 (61%) was provided through USAID funds to supplement local contributions valued at US\$ 2,553,958 (39%) of which US\$ 834,350 (13%) is the estimated value of donated land and US\$ 1,719,608 (26%) is the combined value of labor (volunteer and paid) and cash donations from the beneficiaries.

A summary of cost sharing is found below in Table :

**Table 7: Infrastructure & Environmental Project Cost Contribution  
October 1, 1997-March 31, 2001**

	U.S.\$ Amount	Percentage
USAID Funds	4,061,564	61%
Local Contributions	834,350 (value of land) 1,719,608 (labor & cash)	13% 26%
Total Project Cost	6,615,522	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 the "Agricultural skills training for women" and the "Civic participation" components, 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.

**NB:** The Council of the South has agreed to share in the execution cost of numerous projects in a selected number of villages. Some of those projects have been completed, while others are being implemented and many more are under negotiations. A formal written agreement has been ratified to formalize this partnership and covering a wide selection of projects. To simplify operations, and to speed up project implementation, the Council agreed to undertake some projects and to cover their full cost, while giving credit for the prevailing partnership, and the YMCA will do the same with other activities. If the total monetary contributions of the Council of the South (with projects executed on their own but which are part of the agreement) are accounted for, total program achievements will increase, along with the percentage of program-leveraged funds, which will amount to more than 40 % of projects total cost.

## VII. CONCLUSION

As a final assessment of overall program accomplishments, it is evident that this pioneer cluster-based approach, adopted in the concept, the process and project implementation, has proven to be tremendously viable as an integrated community based development approach. The success of this approach has been widely recognized, and seriously considered for possible replication by other international donor agencies, of those we could mention: The World Bank, UNDP, the Council for the South and few other European NGOs.

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Narrative sections in bold/italics denotes activities/numbers which have been modified in the last six months under review

## YMCA Integrated Rural Development Program

### Listing of Projects

October 1, 1997 - March 31, 2001

Code No.	Cluster	Village	Sector	Project Output	Amount US \$	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 retaining 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 / 150m <sup>3</sup> 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	14,348	Completed
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	Sector	Project Output	Amount US \$	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/ II I-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 300m3 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	59,578	Completed
RI-PW/III- 54	III	Jdaidet El Fakiha	Public works	Rehabilitation of village potable water networks 7000 meters	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	Sector	Project Output	Amount US \$	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	13,490	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 m irrigations networks	54,620	Completed
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	Jibsheets	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	Jibsheets	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	Sector	Project Output	Amount US \$	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 1 spring & 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	Irrigation 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	29,518	Completed
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	1,775m long of irrigation canals & 100 sq.m retaining walls	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	Completed
RI-A/VI-122	II	Beit Mellat	Agriculture	Rehab. of artesian well & 3000 m long of irrigation networks	59,307	Completed
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	24,921	Completed
RI-PW/ I-127	I	Dawra	Public works	Potable water reservoir 300 m <sup>3</sup>	11,104	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	Sector	Project Output	Amount US \$	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	West &North 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	Jibsheets	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-138	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	Completed
RI-A/I-140	I	Akkar El Attika	Agriculture	5400 m long of agricultural roads & one bridge	7,961	Completed
RI-HE /II-141	II	Tekrit	Health & Educ	Construction of one public school	22,587	Completed
RI-A/I-142	I	Aayat	Agriculture	500 m long of agricultural roads & retaining walls	8,614	Completed
RI-PW/ IV-143	IV	Bint Jbeil	Public works	280 sq.m of road retaining walls	9,531	Completed
RI-PW/ III-144	III	Jdaideh El Fakiha	Public works	Installation of 4000 m long of potable water networks	7,258	Completed
RI-A/VI-145	VI	Khelwat	Agriculture	Construction of one rainfed pool	16,500	Completed
RI-A/VI-146	VI	Kfeir	Agriculture	1500 m long of agricultural roads	4,400	Completed
RI-A/VI-147	VI	Mymess	Agriculture	Construction of one rainfed pool	8,400	Completed
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	7,812	Completed
RI-A /III-151	III	El Nabi Ousman	Agriculture	2800 m long of agricultural roads	7,200	Completed
RI-PW/VI-152	VI	Beit Lehya	Public works	792 sq.m of road retaining walls	6,396	Completed
RI-PW/V-153	V	Jibsheets	Public works	730 sq.m of road retaining walls	10,685	Completed
RI-PW/VI-154	VI	Ain Atta	Public works	1000 m long of drainage canals	9,586	Completed
RI-HE /VI-155	VI	Tannoura Cluster	Health & Educ	Furnishing of equipment & tools for 3 dispensaries	10,640	Completed
RI-HE /III-156	III	EIAin 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	1,250	Completed
RI-A/III-159	III	El Nabi Ousman	Agriculture	2300 m long of irrigation canals	15,972	Execution
RI-PW/V-160	V	Kfarsyr	Public works	2031 sq.m of road retaining walls	8,778	Completed
RI-A /I-161	I	Dawra	Agriculture	4500 m long of agricultural roads	12,540	Completed
RI-HE /VI-162	VI	Tannoura Cluster	Health & Educ	Technical training for dispensaries personnel	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	640 sq.m of road retaining walls	5,131	Completed
RI-A /II-165	II	Dahr El Laysineh	Agriculture	2000 m long of agricultural roads	6,720	Completed

Code No.	Cluster	Village	Sector	Project Output	Amount US \$	Status
RI-A /I-166	I	Shakdouf Akkar	Agriculture	1500 m long of agricultural roads	3,300	Completed
RI-A /VI-167	VI	Mymess	Agriculture	Rehabilitation of one water source&1200 m canals	18,493	Completed
RI-A /II-168	II	Rahbeh	Agriculture	1200 m long of irrigation canals	16,570	Completed
RI-HE/VI- 169	VI	Khelwat	Health & Educ	Rehabilitation of one health facility	2,385	Completed
RI -PW/III-170	III	EL Nabi Ousman	Public works	Construction of one bridge	3,538	Completed
RI-PW/ III-171	III	Jdaideh El Fakiha	Public works	Topographie works for road	5,000	Completed
RI-PW/ III-172	III	Jdaideh El Fakiha	Public works	Construction of 2 potable water reservoirs &600 m networks	23,111	Completed
RI-A /IV-173	IV	Mays El Jabal	Agriculture	Construction of 3000 m long of agricultural roads	15,600	Agreement
RI-HE /III-174	III	EL Nabi Ousman	Health & Educ	Rehabilitation& Equipment of one health facility	10,191	Completed
RI-HE /III&VI-175	III&VI		Health & Educ	Needs assesment in educational facilities	1,618	Completed
RI-A / I-176	I	Koss Akkar	Agriculture	Motor for pump	9,550	Execution
RI-A /III-177	III	Jdaideh El Fakiha	Agriculture	2000 m long of irrigation canals	18,178	Completed
RI-A /I-178	I	Aayat	Agriculture	750 m long of agricultural roads	4,710	Completed
RI-PW /I-179	I	Koss Akkar	Public works	675 sq .m of road retaining walls	14,238	Completed
RI-PW /VI-180	VI	ElKhelwat	Public works	Rehabilitation of water source /submersible pump accessories	5,750	Completed
RI-PW / I-181	I	Akkar El Attika	Public works	480 sq.m of road retaining walls	17,520	Execution
RI-PW /VI-182	VI	Tannoura	Public works	400 sq.m of road retaining walls	3,255	Completed
RI-PW /IV-183	IV	Bint Jbeil	Public works	Construction of one potable water reservoir 500 m <sup>3</sup> capacity	35,000	Execution
RI-PW /IV-184	IV	Aytaroun	Public works	Construction of one potable water reservoir 300 m <sup>3</sup> capacity	13,350	Execution
RI-A /IV-185	IV	Hanine	Agriculture	Construction of one rainfed pool	10,478	Completed
RI-A /IV-186	IV	Hanine	Agriculture	1000 m long of agricultural roads	,976	Completed
RI-PW /IV-187	IV	Kantara	Public works	Construction of one potable water reservoir 500 m <sup>3</sup> capacity	50,000	Agreement
RI-PW /IV-188	IV	Rab et Talatine	Public works	Rehabilitation of one potable water reservoir 100 m <sup>3</sup> capacity	10,000	Execution
RI-A /IV-189	IV	Bany Hayan	Agriculture	2175 m long of agricultural roads	1,143	Completed
RI-A /III-190	III	El Ain	Agriculture	230 sq.m of road retaining walls	3,168	Execution
RI-A /VIII-191	VIII	Soujoud	Agriculture	Construction of one rainfed pool	37,000	Execution
RI-A /VIII-192	VIII	El rihane	Agriculture	Construction of one rainfed pool	33,000	Execution
RI-A /VIII-193	VIII	El Kotraneh	Agriculture	4000 m long of agricultural roads	10,000	Execution
RI-A /VIII-194	VIII	El Srife	Agriculture	5500 m long of agricultural roads	9,250	Execution
RI-A /VIII-195	VIII	Mikh	Agriculture	1000 m long of agricultural roads	9,600	Execution
RI-A /VIII-196	VIII	Aramta	Agriculture	5000 m long of agricultural roads	11,600	Execution
RI-A /VIII-197	VIII	El Rihane	Agriculture	Irrigation Reservoir &related canals	18,000	Execution
RI-PW /VI-198	VI	Aita El Foukhar	Public works	Potable water reservoir 500 m <sup>3</sup> capacity & 9600 m networks	94,000	Agreement
RI-A /VI-199	VI	Aita El Foukhar	Agriculture	Rehabilitation of one mill	25,000	Agreement
RI-A /VI-200	VI	Bekka	Agriculture	Rehabilitation of 4 water sources	14,500	Agreement

Code No.	Cluster	Village	Sector	Project Output	Amount US \$	Status
	II	Jibrael	Agriculture	Agriculture demonstration plot / skills training	31,475	On going
	I	Akkar El Attika	Agriculture	Prototype farm / dwarf fruit trees & agricultural skills training	18,680	On going
	III	EL Ain	Agriculture	Prototype farm / dwarf fruit trees & agricultural skills training	17,531	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>2,827,004</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	131,116	Completed
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	Marj El Zouhour	Environment	One waste water management system	130,000	Execution
EM / II - 10	II	Rahbeh	Environment	Capacity Building & Environment Education	15,000	Execution
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	3,000	Completed
EM / V - 15	V	Kfarsyr Cluster	Environment	Solid waste treatment center	200,000	Execution
EM / VI - 16	VI	Kfeir	Environment	Reforestation & environmental activities	21,274	Completed
EM / I & II - 17	I & II	Akkar & Tekrit	Environment	Water source mapping - quality analysis	20,000	Execution
EM / III - 18	III	El Nabi Ousman	Environment	One Public park	20,000	Execution
EM / V - 19	V	Kfarsyr	Environment	One Public park	15,000	Execution
EM / VI - 20	VI	Kfeir	Environment	Rehabilitation & protection of pine forest	9,035	Completed
EM / V - 21	V	Mays EL Jabal	Environment	Solid waste treatment center	200,000	Agreement
EM / I - 22	I	Akkar El Attika	Environment	Solid waste treatment center	200,000	Execution
EM / I - 23	I	Akkar Cluster	Environment	Awareness on pesticide use & safety measurements	15,000	Agreement
<b>Total Environmental activities</b>					<b>U.S.\$</b>	<b>1,234,560</b>
<b>Total Rural &amp; Environmental Infrastructure</b>					<b>U.S \$</b>	<b>4,061,564</b>

**YMCA Integrated Rural Development Program**  
**Summary Table :Activity Progress Report -Impact Indicator - Agricultural Sector**

October 1, 1997 - March 31, 2001

Cluster	Indicator	Project Output	Amount US \$	Contrib. US\$	Planned	Actual to date
I- Akkar El Attika	1.1.1.b	25,000 m long of agricultural roads, 4 gangways	421,558	260,476	637	637
	1.1.1.c	2 bridges,1958 sq.m retaining walls,prototype farm&skills train.			240	83
	1.1.1.a	24,295m long of irrigation canals, 2 irrigation reservoirs,water pump			309	176
	1.1.1.d				455	389
II- Tekrit	1.1.1.b	12,750m long of agricultural roads,9 gangways, 2 bridges,	258,514	201,829	74	74
	1.1.1.c	1350sq.m retaining walls, demonstration plot&training			105	37
	1.1.1.a	17,620 m long of irrigation canals,rehab.of 2 artesian wells (3 pumps)			120	60
	1.1.1.d				80	80
III- El Ain	1.1.1.b	2,800 m long of agricultural roads	379,389	153,238	20	20
	1.1.1.c	29,967 m long of irrigation canals , 240 sq.m retaining walls			15	8
	1.1.1.a				234	177
	1.1.1.d				342	284
IV- Bint Jbeil	1.1.1.b	55,725 m long of agricultural roads,330 sq.m of retaining walls	185,794	252,800	1031	1031
	1.1.1.c	3 rainfed pools, rehabilitation of one source&irrigation reservoir			1217	144
	1.1.1.a				235	215
	1.1.1.d				60	60
V- Kfarsyr	1.1.1.b	28,450m long of agricultural roads,4 gangways,1 bridge, agric training	155,767	203,611	331	331
	1.1.1.c	rehab. of 3 watersprings &irrigation reservoir, one water dam &related pool			191	124
	1.1.1.a				21.5	6.5
	1.1.1.d				3	3
VI- Tannoura	1.1.1.b	34,500 m long of agricultural roads, 6 gangways, rehab.of one mill	223,579	300,449	464	364
	1.1.1.c	1 bridge,766 sq.m retaining walls &agricultural training			158	67
	1.1.1.a	4 rainfed pools& rehab of 5 water source &1200 m long of canals			90	20
	1.1.1.d				5	3
VIII- El Rihane	1.1.1.b	15,500 m long of agricultural roads,	128,450	49,600	149	-
	1.1.1.c				172	-
	1.1.1.a	2 rainfed pools , irrigation reservoir &related canals			98.5	-
	1.1.1.d				42	-
Total	1.1.1.b	174,725 m long of agricultural roads, 23 gangways,6 bridges , 4,644 sq.m retain	1,753,051	1,422,003	2706	2457
	1.1.1.c	walls, rehab . Of one mill , 3 prototype farms & 21 sessions of skills training			2098	463
	1.1.1.a	71,882 m long of irrig canals,6 irrig reservoirs&one dam&irrigation water pump			1108	654.5
	1.1.1.d	11 water sources, 9 rainfed pools, rehab.of 2 artesian wells with 3 pumps			987	819

**YMCA Integrated Rural Development Program  
Agriculture Sector & Relative Indicators**

October 1,1997- March 31, 2001

*Cluster I : Akkar El Attika [ Akkar El Attika (Koss Akkar , Shakhdouf Akkar) , ElDawra , Aayat .]*

Village	Indicator	Project Output	Amount US\$	Contrib US\$	Status	Planned	Actual to Date
Akkar El Attika	1.1.1 b&c	3150m of agricultural roads, 1gangway, 1 bridge	24,874	37,600	Completed	110/30 hect	110/ 27
Akkar El Attika	1.1.1 a&d	1820 m long of irrigation canals &469 sq.m retain walls	22,220	6,200	Completed	6/40 hect	5/40
Akkar El Attika	1.1.1 a&d	600m long of irrigation canals &629 sq.m retain walls	10,581	5,000	Completed	8/15 hect.	8/15
Akkar El Attika	1.1.1 a&d	900m long of irrigation canals	11,565	4,000	Completed	25/35 hect	20/35
Akkar El Attika	1.1.1 b	1000m long of agricultural roads	9,850	2,667	Completed	31 hect	31'
Akkar El Attika	1.1.1 b&c	2500m long of agricultural roads	6,500	10,000	Completed	300/100 hect	300/24
Akkar El Attika	1.1.1 a&d	2100 m long of irrigation canals &160sq.m retain walls	33,543	13,500	Completed	100/100 hect	27/100
Akkar El Attika	1.1.1 a&d	irrigation reservoir & 600 m long of irrigation canals&250 sq.m retain walls	24,677	7,000	Completed	13/39hect	9/39
Akkar El Attika	1.1.1 a&d	2000m long of irrigation canals	15,490	6,500	Completed	10/20 hect	7/20
Akkar El Attika	1.1.1 a&d	800m long of irrigation canals	8,020	3,200	Completed	5/10 hect	-/10
Akkar El Attika	1.1.1 b&c	5400m of agricultural roads &one bridge	7,961	12,500	Completed	40/30 hect	40/4
Akkar El Attika	-	prototype farm / dwarf fruit trees&agricultural skills training	18,680	5,000	On going	-	-
Koss Akkar	1.1.1 c	2,500m of agricultural roads	4,000	5,000	Completed	15 hect	4
Koss Akkar	1.1.1 a	2,500m long of irrigation canals	32,406	16,334	Completed	25 hect.	25
Koss Akkar	1.1.1 a&d	450m long of irrigation canals	5,178	2,000	Completed	5/7 hect.	4/7
Koss Akkar	1.1.1 a&d	700m long of irrigation canals	9,270	3,200	Completed	5/10 hect.	5/10
Koss Akkar	1.1.1 a	350m long of irrigation canals&70sq.m retain walls	5,557	1,850	Completed	35 hect	17
Koss Akkar	1.1.1 a&d	1200 m long of irrigation canals	12,596	6,000	Completed	10/31 hect	7/31
Koss Akkar	1.1.1 d	water pump for irrigation	9,550	5,000	Execution	66 hect	-
Shakhdouf Akkar	1.1.1 b&c	1500m long of agricultural roads	8,945	24,600	Completed	2/3 hect	2/2
Shakhdouf Akkar	1.1.1 a&d	2,400m long of irrigation canals	24,836	11,000	Completed	9/19 hect.	9/19
Shakhdouf Akkar	1.1.1 a&d	1500 m long of irrigation canals	12,986	5,000	Completed	8/23 hect	8/23
Shakhdouf Akkar	1.1.1 b&c	1500 m long of agricultural roads	3,300	3,000	Completed	26/20 hect	26/ 2
ElDawra	1.1.1 a&d	1700m long of irrigation canals	17,778	6,000	Completed	4/6 hect	4/6
ElDawra	1.1.1 a	500m long of irrigation canals	4,400	1,200	Completed	15 hect	10
ElDawra	1.1.1 a&d	1775 m long of irrigation canals &100 sq.m retain walls	18,097	7,775	Completed	13/16 hect	4/16
ElDawra	1.1.1 b&c	4500 m of agricultural roads	12,540	9,000	Completed	113/30 hect	113/ 12
Aayat	1.1.1 a&d	400m long of irrigation canals	4,730	1,600	Completed	2/8 hect	2/ 8
Aayat	1.1.1 b&c	1750m long of agricultural roads,3 gangways, 30 sq.m retain walls	3,946	22,000	Completed	10/8 hect.	10/8
Aayat	1.1.1 d	1,000m long of irrigation canals	8,855	2,900	Completed	3 hect.	3
Aayat	1.1.1 a&d	rehab of one irrig reservoir&1000m long of irrig. Canals&100 sq.m retain walls	15,303	5,100	Completed	11/7 hect	5/7
Aayat	1.1.1 b&c	750m long of agricultural roads	4,710	5,400	Completed	-	-
Aayat	1.1.1 b&c	500 m of agricultural roads &150 sq.m retain walls	8,614	3,350	Completed	5/4 hect	5/ -
Total	1.1.1.b&c	25,000 m long agricultural roads , 4 gangways , 2 bridges, 1958 sq.m retaining walls , prototype farm & agr.skills training	421,558	260,476		637/240	637/83
	1.1.1.a&d	24,295 m long of irrigation canals , 2 irrigation reservoirs, water pump				309/455	176/389

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**Cluster II : Tekrit [ Tekrit, Eelat , Jibrael, Dahr El Laysyneh , Beit Mellat , Rahbeh ]**

Village	Indicator	Project Output	Amount US\$	Contrib US\$	Status	Planned	Actual to Date
Tekrit	1.1.1 b&c	4,000m long of agr.roads & 2gangways,1 bridge,275sq.m retain.walls	18,320	58,500	Completed	27/18 hect.	27/18
Tekrit	1.1.1 a	rehabilitation of one artesian well,3000 m long of irrigation networks	54,620	16,550	Completed	48 hect	48
Jibrael	1.1.1 a&d	700m long of irrigation canals	5,382	2,530	Completed	2/4 hect	2/4
Jibrael	1.1.1 b&c	2,600m long of agr. roads; 7gangways,585sq.m retaining walls	9,704	47,933	Completed	7/12 hect.	7/12
Jibrael	1.1.1 b&c	1350 m long of agr. roads; 180 sq.m retaining walls	5,698	9,850	Completed	4/15 hect	4/5
Jibrael	-	agricultural demonstration plot & training session	31,475	-	On going	-	-
DahrEl Laysyneh	1.1.1 b&c	2000 m long of agricultural roads	6,720	4,000	Completed	15/20 hect	15/ -
Beit Mellat	1.1.1 a	1,620 m long of irrigation canals & 60sq.m retain walls	15,395	5,000	Completed	8 hect.	8
Beit Mellat	1.1.1 d	1200m long of irrigation canals / HDPE lining	17,133	3,000	Completed	20 hect	20
Beit Mellat	1.1.1 a&d	rehabilitation of one artesian well,8600 m long of irrigation networks	59,307	20,666	Completed	50/2 hect	-/2
Rahbeh	1.1.1 a&d	1300m long of irrigation canals	9,650	4,000	Completed	8/26 hect	1/26
Rahbeh	1.1.1 b&c	2800 m long of agricultural roads & one bridge&250sq.m retain walls	8,540	21,800	Completed	21/40 hect	21/2
Rahbeh	1.1.1 a&d	1200m long of irrigation canals	16,570	8,000	Completed	4/28 hect	1/28
<b>Total</b>	1.1.1.b&c	12,750 m long of agricultural roads, 9 gangways, 2 bridges 1350 sq.m retain walls , Demonstration plot & agr trainning	258,514	201,829		74/105	74/37
	1.1.1.a&d	17,620 m long of irrigation canals, rehab of 2 artesian wells( 3 pumps )				120/80	60/80

**Cluster III : ElAin [ Jdaidet El Fakiha , Fakiha & Zaytoun, ElAin, ELNabi Ousman ]**

Village	Indicator	Project Output	Amount US\$	Contrib US\$	Status	Planned	Actual to Date
Fakiha	1.1.1 a	400m long of irrigation canals	7,653	2,000	Completed	5 hect.	5
Jdaidet El Fakiha	1.1.1 a	3,500m long of irrigation canals	41,559	12,250	Completed	32 hect	32
Jdaidet El Fakiha	1.1.1 a &d	2,000m long of irrigation canals	18,178	8,100	Completed	33/ 69 hect	5 / 69
Zaytoun	1.1.1 a	2,950m long of irrigation canals	41,972	20,650	Completed	25 hect	25
El Ain	1.1.1 a&d	1600m long of irrigation canals	13,674	3,040	Completed	6/4 hect.	6/4
El Ain	1.1.1 a	2,550m long of irrigation canals	17,210	16,450	Completed	53 hect.	53
El Ain	1.1.1 a&d	950 m long of irrigation canals	11,826	3,800	Completed	2/4 hect.	2/4
El Ain	1.1.1 a	1000m long of irrigation canals	12,085	5,133	Completed	7 hect	7
El Ain	1.1.1 a&d	1700 m long of irrigation canals	15,893	2,350	Completed	15/26 hect	15 /26
El Ain	1.1.1 a&d	rehabilitation of two water sources	1,368	300	Completed	5/40 hect	2/40
El Ain	1.1.1 d	240 sq.m retaining walls for irrigation canals	3,168	1,500	Execution	3 hect	-
El Nabi Ousman	1.1.1 a	2,100m long of irrigation canals	28,987	7,000	Completed	15 hect.	15
El Nabi Ousman	1.1.1 a	1,200m long of irrigation canals	13,260	12,800	Completed	3 hect.	3
El Nabi Ousman	1.1.1 d	750 m long of irrigation canals	11,547	4,970	Completed	4 hect.	4
El Nabi Ousman	1.1.1 d	817 m long of irrigation canals	10,885	6,822	Completed	17 hect	17

Village	Indicator	Project Output	Amount US\$	Contrib US\$	Status	Planned	Actual to Date
El Nabi Ousman	1.1.1 d	1800 m long of irrigation canals	36,962	12,000	Completed	33 hect	33
El Nabi Ousman	1.1.1 d	1600 m long of irrigation canals/ HDPE Lining	19,260	2,000	Completed	20 hect	20
El Nabi Ousman	1.1.1 d	1750 m long of irrigation canals	22,824	6,673	Completed	55 hect	55
El Nabi Ousman	1.1.1 a&d	rehabilitation of irrigation reservoir&1000 m long of irrigation canals	10,375	3,100	Completed	7/12 hect	7/12
El Nabi Ousman	1.1.1 b&c	2800 m long of agricultural roads	7,200	1,500	Completed	20/15 hect	20/8
El Nabi Ousman	1.1.1 a&d	2300 m long of irrigation canals	15,972	15,800	Execution	26/ 55 hect	-
El Nabi Ousman	-	prototype farm / dawrf fruit trees & agricultural skills training	17,531	5,000	On going	-	-
Total	1.1.1.a&d	29, 967 m long of irrigation canals , 240 sq.m retaining walls rehab.2 water sources & one irrigation reservoir prototype farm&agricultural skills training	379,389	153,238		234/342	177/284
	1.1.1.b&c	2800 m long of agricultural roads				20/15	20/8

**Cluster IV : Bint Jbeil [ Bint Jbeil, Aytaroun , Maroun El Ras, Blida ,Mays El Jabal, Mhaybib, Ainata , Ain Ebel,Hanine , El Kantara ,Bany Hayan ,Rabb et Talatine , Taibe ,Talloussa ,Markaba , Houla ,Zalloutiye ,Dhaira, Marouahine ,Btaichiye,Yarine , Yaroun ]**

Village	Indicator	Project Output	Amount US\$	Contrib US\$	Status	Planned	Actual to Date
Bint Jbeil	1.1.1 b&c	5,400m long of agricultural roads	11,940	13,600	Completed	42/55 hect.	42/14
Bint Jbeil	1.1.1.a	Rehabilitation of one rainfed pool	28,775	14,500	Completed	200 hect	200
Aytaroun	1.1.1 b&c	12,500m of agricultural road & 330 sq.m retaining walls	33,092	22,000	Completed	600/900 hect.	600/83
Aytaroun	1.1.1 b&c	1,500m long of agricultural roads	4,200	6,000	Completed	15/35 hect	15/-
Aytaroun	1.1.1 b&c	3000 m long of agricultural roads	14,800	20,000	Completed	105/45 hect	105/-
Maroun El Ras	1.1.1 b&c	2,600m long of agricultural roads	3,120	6,400	Completed	30/23 hect.	30/12
Blida	1.1.1 b&c	4,700m long of agricultural roads	2,820	18,800	Completed	39/20 hect.	39/20
Blida	1.1.1 b&c	6,500m long of agricultural roads	6,500	13,000	Completed	29/17 hect.	29/-
Mays El Jabal	1.1.1 b&c	10,400m long of agricultural roads	6,120	21,000	Completed	130/80 hect.	130/15
Mays El Jabal	1.1.1 b&c	2700 m long of agricultural roads	15,600	90,000	Agreement		
Mhaybib	1.1.1.a & d	Construction of one rainfed pool	31,452	9,000	Completed	5/40 hect	5/40
Ainata	1.1.1 b&c	3250 m long of agricultural roads	1,250	6,500	Completed	30/25 hect	30/ -
Ain Ebel	1.1.1.a & d	Rehabilitation of one source & irrigation reservoir	13,528	5,000	Completed	10/20 hect	10/20
Hanine	1.1.c	1,000m long of agricultural roads	976	2,000	Completed	6 hect	-
Hanine	1.1.1a	Rehabilitation of one rainfed pool	10,478	3,000	Completed	20 hect	-
Bany Hayan	1.1.1 b&c	2,175m long of agricultural roads	1,143	2,000	Completed	11/11 hect	11/-
Total	1.1.1.a&d	3 rainfed pools , rehab of one source & irrigation reservoir	185,794	252,800		235/60	215/60
	1.1.1.b&c	55,725 m long of agricultural roads, 330sq.m retain walls				1031/1217	1031/144

**Cluster V : Kfarsyr [ Adshit,Braykeh, Kfarsyr, ,Ksaybeh,Sir El Gharbieh , Jbsheet,Nabatiye ,Maifadoun ,Choukine , Nabatiye El Faouqa,KfarTebnit , Arnoun ,Habbouch ,Qaaqaaiet Ejisr , Kfarroummann ,Zaoutar El Gharbiye ,Zaoutar Ech Charqiye ]**

Village	Indicator	Project Output	Amount US\$	Contrib US\$	Status	Planned	Actual to Date
Adshit	1.1.1 b&c	2,000m long of agricultural roads,1gangway	3,568	6,100	Completed	35/7 hect.	35/7
Braykeh	1.1.1 b&c	400 m long of agricultural roads	8,037	2,500	Completed	50/12 hect	50/18
Braykeh	1.1.1.a	construction of a water dam &related pool	29,518	4,300	Completed	20hect	5
Kfarsyr	1.1.1 b&c	7,400m long of agricultural roads	23,420	7,920	Completed	22/55 hect.	22/34
Kfarsyr	1.1.1 b&c	rehabilitation of 1750m long of agricultural roads	11,724	26,000	Completed	20/20 hect.	20/14
Kfarsyr	1.1.1 b&c	rehabilitation of 1500m long of agricultural roads	15,000	42,000	Completed	10/ 5 hect.	10 /5
Ksaybeh	1.1.1 b&c	2,500m long of agricultural roads	3,800	32,000	Completed	77/10 hect.	77/10
Ksaybeh	-	agricultural skills training /olive production & pest control	500	-	Completed	-	-
Sir El Gharbieh	1.1.1 b&c	6,400m long of agricultural roads,1gangway	19,459	65,000	Completed	97/25 hect	97/18
Sir El Gharbieh	1.1.1 b&c	2,500m long of agricultural roads,1 bridge	19,580	4,400	Completed	5/20 hect	5 /5
Jbsheet	1.1.1 b&c	4000 m long of agricultural roads,2gangways	7,917	3,391	Completed	15/37 hect	15 /13
Jbsheet	1.1.1.a&d	rehabilitation of three water springs&irrigation reservoir	13,244	10,000	Completed	1.5/3 hect	1.5/3
Total	1.1.1.b&c	28,450 m long of agricultural roads,4 gangways, 1 bridge	155,767	203,611		331/191	331/124
	1.1.1.a&d	rehabilitation of three water springs& irrigation reservoir construction of water dam & related pool				21.5/3	6.5/3

**Cluster VI : Tannoura [ Tannoura, Mymess , Kfeir , El Khelwat , Beit Lehya, Ain Harsha , Ain Atta , Marj El Zouhour, Aita El Foukhar , Ain Arab , Yanta,Bekka ,Mdoukha ,Khirbet Rouha ]**

Village	Indicator	Project Output	Amount US\$	Contrib US\$	Status	Planned	Actual to Date
Tannoura	1.1.1 b&c	4,050m long of agricultural roads	21,295	32,400	Completed	43/10 hect	43/8
Tannoura	1.1.1 a	construction of one rainfed pool	13,490	5,433	Completed	10 hect	10
Mymess	1.1.1 b&c	5,800m long of agricultural roads	4,800	61,200	Completed	62/27hect.	62/10.4
Mymess	1.1.1 a	construction of one rainfed pool	8,400	1,000	Completed	50 hect	-
Mymess	1.1.1 d	rehabilitation of water source &1200 m long of canals	18,493	13,333	Completed	3 hect	3
Mymess	-	agricultural skills training / olive production & pest control	518	-	Completed	-	-
Kfeir	1.1.1 b&c	3.150m of agricultural roads, 1 gangway	10,297	15,500	Completed	110/20 hect.	110/18
Kfeir	1.1.1 b&c	1500 m long of agricultural roads	4,400	30,000	Completed	-	-
El Khelwat	1.1.1 b&c	3,000m long of agricultural roads,	10,800	44,000	Completed	15/10 hect.	15/3
El Khelwat	1.1.1 b&c	2,000m long of agricultural roads, 3 gangways	7,650	8,600	Completed	6/5hect	6/3
El Khelwat	1.1.1 a	construction of one rainfed pool	16,500	833	Completed	20 hect	-
Beit Lehya	1.1.1 b&c	2,100m long of agricultural roads	3,600	9,600	Completed	13/5 hect	13/5
Beit Lehya	1.1.1 b&c	1,600m long of agricultural roads & 700 sq.m retain.walls	7,694	8,700	Completed	5/20 hect	5/2
Ain Harcha	1.1.1 b&c	3,300m long of agricultural roads,2 gangways,66sq.m retain.walls	5,003	9,250	Completed	30/10 hect	30/3
Ain Harcha	1.1.1 b	500 m long of agricultural roads, one bridge	8,674	3,500	Completed	5 hect	5
Ain Atta	1.1.1 b&c	7,500m long of agricultural roads	13,420	36,000	Completed	75/51hect.	75/ 14
Ain Atta	1.1.1 a	construction of one rainfed pool	29,045	12,900	Completed	10 hect.	10
Bekka	1.1.1.d	rehabilitation of 4 water sources	14,500	4,200	Agreement	2 hect	-
Aita El Foukhar	1.1.1.b	rehabilitation of one mill	25,000	4,000	Agreement	100 hect	-
Total	1.1.1.b&c	34,500 m long of agr. roads,1 bridge,6gangways,766sq.m retain walls, rehabilitation of one mill	223,579	300,449		464/158	364/67
	1.1.1.a & d	4 rainfed pools& rehab. of 5 water source &1200 m canals				90/5	20/ 3

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**Cluster VIII : Jabal El Rihane [ Jabal ElRihane , Aarmta, Mlikh ,Srairi ,Meidoun , Sejoud , Aaichiye,Jarmaq ,Qotrani ]**

Village	Indicator	Project Output	Amount US\$	Contrib US\$	Status	Planned	Actual to Date
Jabal El Rihane	1.1.1.a	construction of one rainfed pool	33,000	12,000	Execution	40 hect	-
Jabal El Rihane	1.1.1.a	irrigation reservoir & related canals	18,000	8,500	Execution	18.5/42 hect	-
Aarmata	1.1.1 b&c	5000 m long of agricultural roads	11,600	6,000	Execution	57/ 22 hect	-
Mlikh	1.1.1 b&c	3000 m long of agricultural roads	9,600	6,000	Execution	7/ 35 hect	-
Srairi	1.1.1 b&c	5.500 m long of agricultural roads	9,250	3,100	Execution	35/ 55 hect	-
Soujoud	1.1.1.a	construction of one rainfed pool	37,000	9,600	Execution	40 hect	-
Qotrani	1.1.1 b&c	4000 m long of agricultural roads	10,000	4,400	Execution	50/ 60 hect	-
<b>Total</b>	<b>1.1.1.b&amp;c</b>	<b>17,500 m long of agricultural roads</b>	<b>128,450</b>	<b>49,600</b>		<b>149/172</b>	-
	<b>1.1.1.a &amp;d</b>	<b>2 rainfed pools&amp; rehab. of one irrigation reservoir &amp; related canals</b>				<b>98.5/42</b>	-

**YMCA Integrated Rural Development Program**  
**Social Infrastructure Sector & Relative Indicators**  
 October 1 ,1997 - March 31 ,2001

Cluster	Village	Indicator	Project Output	Amount US\$	Contrib US\$	Status	Planned ( families )	Actual to Date
I	El Dawra	1.1.2 a	Potable water reservoir 300 m <sup>3</sup> capacity	11,104	6,500	completed	335	335
I	Koss Akkar	1.1.2 a	Potable water reservoir & 1320 m networks	14,348	8,300	completed	53*	53*
I	Koss Akkar	1.1.2. f	675 sq.m of road retaining walls	14,238	15,000	completed	2000	2000
I	Shakdouf Akkar	1.1.2. f	410 sq.m of road retaining walls	12,955	7,333	completed	100 *	100*
I	Akkar El Attika	1.1.2. f	480 sq.m of road retaining walls	17,520	5,000	execution	1000*	-
II	Rahbeh	1.1.2 a	750 m long of potable water networks	4,280	1,750	completed	1100	1100
III	El Ain	1.1.2. f	750 sq.m of road retaining walls	14,347	2,667	completed	1000	1000
III	El Nabi Ousman	1.1.2. f	517 sq.m of road retaining walls	9,938	6,000	completed	500	500
III	Jdaidet El Fakiha	1.1.2 a	7000 m long of potable water networks	32,874	14,100	completed	865*	865
III	Jdaidet El Fakiha	1.1.2 a	4000 m long of potable water networks	7,258	3,333	completed	300*	300*
III	Jdaidet El Fakiha	1.1.2 a	2 potable water reservoirs 300 m <sup>3</sup> capacity & 600 m networks	23,111	26,400	completed	1850	1850
III	Jdaidet El Fakiha		Topographie works for road	5,000	500	completed	-	-
III	ELNabiOusman	1.1.2 f	Construction of one bridge	3,538	1,500	completed	500*	500*
IV	Ain Ebel	1.1.2. f	577sq.m of road retaining walls	27,106	9,000	completed	200*	200*
IV	Ainata	1.1.2. f	590 sq.m of road retaining walls	14,335	7,000	completed	200	200
IV	Aytaroun	1.1.2. f	336 m long of drainage canals	5,136	3,500	completed	700*	700
IV	Aytaroun	1.1.2 a	Construction of one potable water reservoir 300m <sup>3</sup> capacity	13,350	8,500	execution	1000	-
IV	Bint Jbeil	1.1.2. f	410 sq.m of road retaining walls	9,654	6,029	completed	1200*	1200
IV	Bint Jbeil	1.1.2. f	515 sq.m of road retaining walls	13,800	61,000	completed	200*	200*
IV	Bint Jbeil	1.1.2 a	Construction of one potable water reservoir 500m <sup>3</sup> capacity	35,000	14,500	execution	1200	-
IV	Bint Jbeil	1.1.2. f	280 sq.m of road retaining walls	9,531	5,181	completed	200*	200*
IV	Mays el Jabal	1.1.2. f	90 sq.m of road retaining walls	2,088	950	completed	200*	200*
IV	Rab EtTalatine	1.1.2 a	Rehabilitation of one potable water reservoir 100m <sup>3</sup> capacity	10,000	1,000	execution	125	-
IV	ElKantara	1.1.2 a	Construction of one potable water reservoir 500m <sup>3</sup> capacity	50,000	32,000	agreement	400	-
V	Adshit	1.1.2 a	Elevated water reservoir 300m <sup>3</sup> capacity	25,747	35,850	completed	350	350
V	Jibsheets	1.1.2. f	1080 m long of drainage canals	28,388	15,300	completed	1000 *	1000*
V	Jibsheets	1.1.2. f	570 sq.m of road retaining walls	18,836	9,500	completed	1000	1000
V	Jibsheets	1.1.2. f	730 sq.m of road retaining walls	10,685	7,000	completed	200 *	200*
V	Kfarsyr	1.1.2. f	860 m long of drainage canals	21,780	14,900	completed	600	600
V	Kfarsyr	1.1.2. f	455 sq.m of road retaining walls	9,610	5,000	completed	200*	200*
V	Kfarsyr	1.1.2 a	1500 m long of potable water networks	5,000	4,000	completed	30 *	30*
V	Kfarsyr	1.1.2. f	2031 sq.m of road retaining walls	8,778	25,529	completed	200*	200*
V	Ksaybeh	1.1.2. f	1100 m long of drainage canals	23,780	12,000	completed	93*	93*
V	Ksaybeh	1.1.2. f	Construction of one small bridge	1,450	700	completed	150 *	150*
V	Ksaybeh	1.1.2 a	Rehab.of water source & reservoir	14,904	16,600	completed	400*	400*
V	Ksaybeh	1.1.2. f	450 m long of drainage canals	10,487	3,150	completed	100 *	100*
V	Sir el Gharbieh	1.1.2. f	88 sq.m of road retaining walls	1,587	700	completed	50 *	50*
V	Sir el Gharbieh	1.1.2. f	75 sq.m of road retaining walls	760	700	completed	300	300

**YMCA Integrated Rural Development Program  
Social Infrastructure Sector & Relative Indicators**

October 1 ,1997 - March 31 ,2001

Cluster	Village	Indicator	Project Output	Amount US\$	Contrib US\$	Status	Planned ( families )	Actual to Date
VI	Ain Harsha	1.1.2 a	Rehabilitation of one spring & construction of water reservoir	2,887	800	completed	200	200
VI	Ain Atta	1.1.2. f	600 m long of drainage canals	9,586	3,000	completed	400*	400*
VI	Kfeir	1.1.2. f	160m long of drainage canals	3,039	1,820	completed	50*	50*
VI	Kfeir	1.1.2 a	Equipping of one artesian well /submersible pump	3,250	1,410	completed	325	325
VI	Marj El Zouhour	1.1.2. f	700m long of drainage canals	7,710	4,000	completed	200	200
VI	Marj El Zouhour	1.1.2. f	500 sq.m of road retaining walls	11,457	7,000	completed	150*	150*
VI	Mymess	1.1.2. f	340m long of drainage canals	4,615	2,355	completed	38 *	38*
VI	Mymess	1.1.2. f	520 m long of drainage canals	13,960	7,500	completed	300*	300
VI	Mymess	1.1.2. f	937 sq.m of road retaining walls	14,995	5,000	completed	200 *	200*
VI	ElKhelwat	1.1.2 a	Rehabilitation of water source / pump accessories	5,750	500	completed	270*	270*
VI	Tannoura	1.1.2 a	Rehabilitation of water source / pump accessories	11,160	2,300	completed	150	150
VI	Tannoura	1.1.2. f	640 sq.m of road retaining walls	5,131	5,000	completed	150*	150*
VI	Tannoura	1.1.2. f	400 sq.m of road retaining walls	3,255	3,000	completed	150*	150*
VI	Beit Lehya	1.1.2. f	792 sq.m of road retaining walls	6,396	6,000	completed	100	100
VI	Aita El Foukhar	1.1.2. a	Potable water reservoir 500m <sup>3</sup> capacity & 9,600 m networks	94,000	65,600	agreement	400	-
<b>Total</b>		1.1.2 a	<b>12 potable water reservoirs &amp; 24,770 m long of potable water networks , 3 pumps, rehab .of 2 water sources</b>	<b>739,494</b>	<b>513,257</b>		<b>9353 fam</b>	<b>6228 fam</b>
		1.1.2. f	<b>6,146 m long of drainage canals 12,512 sq.m of road retain walls, 2 bridges</b>				<b>13631 fam</b>	<b>12631 fam</b>

\* double counted

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**YMCA Integrated Rural Development Program  
Social Infrastructure Sector & Relative Indicators**

October 1, 1997 - March 31, 2001

Cluster	Village	Indicator	Project Output	Amount US\$	Contr. US\$	Status	Planned	Actual to Date
I	Akkar El Attika	1.1.2 d	Construction of secondary level public school	59,578	25,000	Completed	2000 fam / 500students	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 students
II	Tekrit	1.1.2 d	Construction of one public school	22,587	20,236	Completed	1000 fam/ 157 students	157 students
II	Rahbeh	1.1.2 c	Medical equipment for health facility	7,000	7,000	Completed	1100 families*	1100 families*
III	Jdaideh El Fakiha	1.1.2 d	Construction of one public school	27,002	8,500	Completed	700 fam* / 120students	120 students
III	Jdaideh El Fakiha	1.1.2 d	Extension works for a private free of charge school	7,812	5,800	Completed	700 fam* / 140students	140 students
III	El Nabi Ousman	1.1.2 c	Rehabilitation&Equipment of one health facility	10,191	3,376	Completed	500 families*	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	ELAin 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	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	350 students
IV	Bint Jbeil	1.1.2 d	Rehabilitation of school facilities	14,160	3,540	Completed	1200 fam*/335 students	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	98 students
IV	Mays El Jabal	1.1.2 d	Roofing of school playground facility	6,232	1,400	Completed	1000 fam*/200students	200 students
IV	Ain Ebel	1.1.2 d	Rehabilitation of school sport facility	17,888	13,500	Completed	700 fam* /1200students	1200students
V	Ksaybeh	1.1.2 e	Construction of one youth club	24,921	10,000	Completed	800 families	800 families
V	Kfarsyr	-	health plan assesment workshop	1,444	150	Completed	-	-
V	Kfarsyr	-	primary health workshop	1,905	150	Completed	-	-

**YMCA Integrated Rural Development Program**  
**Social Infrastructure Sector & Relative Indicators**  
 October 1 ,1997 -March 31 ,2001

Cluster	Village	Indicator	Project Output	Amount US\$	Contr. 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	2,385	1,100	Completed	270 families *	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&V	-	Workshop / Needs assesment in educational facilities	1,618	-	Completed	-	-
	III&VI	-	training / administrative skills for managing health facility	2,361	-	Completed	-	-
	All Clusters	-	Dental hygien campaign	15,895	-	Completed	-	-
<b>Total</b>	<b>1.1.2 c</b>	<b>rehabilitation works for 5 health facilities, equipments, furnitures &amp; tools for 10 dispensaries</b>	<b>334,459</b>	<b>147,977</b>			<b>7690 families</b>	<b>7690 families</b>
	<b>1.1.2 d</b>	<b>const of 5 schools &amp; rehab.of 6 school facilities</b>					<b>10760 fam/3340 stud</b>	<b>3340 stud</b>
	<b>1.1.2 e</b>	<b>construction of 2 clubs &amp;one football court</b>					<b>1625 families</b>	<b>1625 families</b>

\* double counted

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

October 1,1997 - March 31 ,2001

Village	Indicator	Villages Nb	Project Output	Amount US \$	Contrib 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&f)
Akkar el Attika	1.1.4 d&f	1	Solid waste treatment center	200,000	80,000	Execution	1 (d&f)	1 (f)
Koss Akkar	1.1.4 c&f	1	One waste water treatment system	131,116	46,000	Completed	1 (c&f)	1 (c)
Akkar Cluster	1.1.4 a&f	1	Reforestation of 1000 trees	3,206	1,000	Completed	1 (a&f)	1 (a&f)
Akkar Cluster	1.1.4 f	3	Awareness on pesticide use & safety measurements	15,000	-	Agreement	3 (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	-	-
Rahbeh	1.1.4 b&f	1	Applied environmental awareness/ public park	15,000	-	Execution	1 (b&f)	1 (f)
Akkar&Tekrit Cluster	1.1.4 e&f	8	Water source mapping / quality analysis &workshops	20,000	8,000	Execution	8 (e&f)	8 (e)
ElNabi Ousman	1.1.4 b	1	One public park	20,000	20,000	Execution	1 (b)	-
Mays el Jabal	1.1.4 d&f	3	Solid waste treatment center	200,000	80,000	Agreement	3 (d&f)	3 (f)
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	200,000	20,000	Execution	1 (d&f)	1 (d&f)
Kfarsyr	1.1.4 b	1	One public park	15,000	7,000	Execution	1 (b)	-
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	4	Water source mapping / quality analysis& workshops	3,000	400	On going	4 (e&f)	4 (e&f)
Tannoura Cluster	1.1.4 a&f	4	Reforestation of 2600 trees &environmental activities	21,274	3,500	Completed	4 (a&f)	4 (a&f)
Kfeir	1.1.4 b	1	Rehabilitation &Protection of pine forest	9,035	5,000	Completed	1 (b)	1 (b)
Marj El Zouhour	1.1.4 c&f	1	One waste water treatment system	130,000	70,000	Execution	1 (c&f)	1 (c)
<b>Total</b>	1.1.4 a	29	<b>reforestation of 9,585 trees&amp; environmental activities</b>	1,234,560	470,721		19	19
	1.1.4 b		<b>rehab.of 1 spring , 3 public parks, pine forest &amp; distribution of solid waste containers</b>				6	3
	1.1.4 c		<b>3 waste water treatment systems</b>				3	3
	1.1.4 d		<b>4 solid waste treatment centers</b>				8	1
	1.1.4 e		<b>water source mapping and quality analysis</b>				12	12
	1.1.4 f		<b>awareness campaign/ workshop / training</b>				44	28

## YMCA Integrated Rural Development Program

### Agricultural Income Generation for Women & Relative Indicator

October 1 ,1997 -March 31 , 2001

#### 1.1.3 Clients accessing expanded economic opportunities

<b>Cottage Industry training sessions</b>						
Cluster	Village	Project Output	Amount US\$	Contrib US\$	Status	Trainees Nb
I	Akkar El Attika	Trainning /food preservation and marketing techniques	8,125	1,000	Completed	43
I	Koss Akkar	Trainning /food preservation and marketing techniques	8,501	1,000	Completed	30
II	Tekrit	Trainning /food preservation and marketing techniques	7,291	1,000	Completed	49
II	Jibrael	Trainning /food preservation and marketing techniques	5,441	1,000	Completed	27
III	El Ain	Trainning /food preservation and marketing techniques	9,542	1,000	Completed	42
III	Fakiha	Trainning /food preservation and marketing techniques	7,740	1,000	Completed	25
IV	Bint Jbeil	Trainning /food preservation and marketing techniques	11,071	1,000	Completed	51
V	Ksaybeh	Trainning /food preservation and marketing techniques	11,444	1,000	Completed	38
V	Kfarsyr	Trainning /food preservation and marketing techniques	13,365	1,000	Completed	41
VI	Ain Atta	Trainning /food preservation and marketing techniques	8,952	1,000	Completed	42
VI	Ain Atta	Trainning /food preservation and marketing techniques	7,257	1,000	Completed	57
VI	Beit Lehya	Trainning /food preservation and marketing techniques	13,700	1,000	Completed	31
<b>Income Generating Centers</b>						
II	Tekrit	Tekrit Food Processing - Solar drying Center	27,000	2,500	On going	12
III	ElAin Center	El Ain Crop Drying Center, solar dryer furnishings, equipments, ustc	26,963	3,000	Completed	15
III	Fakiha	Fakiha Food processing - Trout Smoking Center	22,658	4,000	Completed	12
V	Kosaybeh Center	Ksaybeh Distilling & Food Processing Center	13,601	3,000	Completed	14
VI	Kfeir	Kfeir Beekeeping & Honey Production Center	26,000	7,500	On going	32
VI	Khelwat	Khelwat Food Processing - Olive Bottling Center	27,614	3,000	Completed	12
<b>Total</b>		<b>12 sessions of training on food preservation &amp; marketing techniques &amp; 6 Production Centers</b>	<b>256,264</b>	<b>35,000</b>		<b>573</b>

**YMCA Integrated Rural Development Program**  
**Listing of Projects Cost Sharing**

October 1 ,1997 - March 31 ,2001

Code No.	Village	Project sector	AID US\$ funds	Local Contribution			Total Cost US \$
				Land	Labor &Cash	Total \$	
RI-A/I-1	Akkar El Attika	Agriculture	24,874	31,000	6,600	37,600	62,474
RI-A/I-2	Akkar El Attika	Agriculture	22,220		6,200	6,200	28,420
RI-A/I-3	Koss Akkar	Agriculture	32,406		16,334	16,334	48,740
RI-A/VI-4	Kfeir	Agriculture	10,297	15,000	500	15,500	25,797
RI-A/III-5	El Ain	Agriculture	17,210		16,450	16,450	33,660
RI-A/III-6	El Nabi Ousman	Agriculture	13,260		12,800	12,800	26,060
RI-A/IV-7	Maroun El Ras	Agriculture	3,120	6,400		6,400	9,520
RI-A/IV-8	Bint Jbeil	Agriculture	11,940	13,600		13,600	25,540
RI-PW/IV-9	Aytaroun	Public works	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	Health & Educ	6,942		4,050	4,050	10,992
RI-A/IV-12	Aytaroun	Agriculture	33,092	16,800	5,200	22,000	55,092
RI-PW/I-13	Koss Akkar	Public works	14,348		8,300	8,300	22,648
RI-A/I-14	Koss Akkar	Agriculture	4,000	5,000		5,000	9,000
RI-A/I-15	Shakdouf Akkar	Agriculture	8,945	23,600	1,000	24,600	33,545
RI-PW/VI-16	Tannoura	Public works	11,160		2,300	2,300	13,460
RI-A/VI-17	Tannoura	Agriculture	21,295	32,400		32,400	53,695
RI-A/III-18	Fakiha	Agriculture	7,653		2,000	2,000	9,653
RI-A/III-19	Zaytoun	Agriculture	41,972		20,650	20,650	62,622
RI-A/III-20	Jdaudet El Fakiha	Agriculture	41,559		12,250	12,250	53,809
RI-A/II-21	Jibrael	Agriculture	5,382		2,530	2,530	7,912
RI-A/VI-22	Mymess	Agriculture	4,800	61,200		61,200	66,000
RI-A/V-23	Sir El Gharbieh	Agriculture	19,459	64,000	1,000	65,000	84,459
RI-A/V-24	Ksaybeh	Agriculture	3,800	32,000		32,000	35,800
RI-PW/V-25	Ksaybeh	Public works	23,780		12,000	12,000	35,780
RI-A/I-26	Aayat	Agriculture	4,730		1,600	1,600	6,330
RI-A/V-27	Adshit	Agriculture	3,568	5,600	500	6,100	9,668

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Code No.	Village	Project sector	AID US\$ funds	Local Contribution			Total Cost US \$
				Land	Labor & Cash	Total \$	
RI-A/VI-28	Ain Atta	Agriculture	13,420	36,000		36,000	49,420
RI-A/VI-29	El Khelwat	Agriculture	10,800	44,000		44,000	54,800
RI-PW/VI-30	Mymess	Public works	4,615		2,355	2,355	6,970
RI-HE/III-31	Jdaidet El Fakiha	Health & Educ	27,002		8,500	8,500	35,502
RI-A/II-32	Tekrit	Agriculture	18,320	48,000	10,500	58,500	76,820
RI-A/I-33	Aayat	Agriculture	3,946	21,000	1,000	22,000	25,946
RI-A/II-34	Jibrael	Agriculture	9,704	45,600	2,333	47,933	57,637
RI-A/II-35	Beit Mellat	Agriculture	15,395		5,000	5,000	20,395
RI-A/I-36	Shakdouf Akkar	Agriculture	24,836		11,000	11,000	35,836
RI-PW/IV-37	Ainata	Public works	14,335		7,000	7,000	21,335
RI-PW/IV-38	Bint Jbeil	Public works	13,800		61,000	61,000	74,800
RI-A/IV-39	Blida	Agriculture	2,820	18,800		18,800	21,620
RI-A/IV-40	Mays El Jabal	Agriculture	6,120	21,000		21,000	27,120
RI-A/III-41	El Nabi Ousman	Agriculture	28,987		7,000	7,000	35,987
RI-A/III-42	El Ain	Agriculture	13,674		3,040	3,040	16,714
RI-PW/V-43	Adshit	Public works	25,747	750	35,100	35,850	61,597
RI-A/I-44	Akkar El Attika	Agriculture	10,581		5,000	5,000	15,581
RI-A/I-45	Akkar El Attika	Agriculture	11,565		4,000	4,000	15,565
RI-A/I-46	Koss Akkar	Agriculture	5,178		2,000	2,000	7,178
RI-A/I-47	Koss Akkar	Agriculture	9,270		3,200	3,200	12,470
RI-A/I-48	Aayat	Agriculture	8,855		2,900	2,900	11,755
RI-HE/I-49	Kfarsyr	Health & Educ	1,444		150	150	1,594
RI-A/VI-50	Beit Lehya	Agriculture	3,600	9,600		9,600	13,200
RI-A/I-51	ElDawra	Agriculture	17,778		6,000	6,000	23,778
RI-A/I-52	ElDawra	Agriculture	4,400		1,200	1,200	5,600
RI-HE/I-53	Akkar El Attika	Health & Educ	59,578		25,000	25,000	84,578
RI-PW/III-54	Jdaidet El Fakiha	Public works	32,874		14,100	14,100	46,974
RI-A/IV-55	Bint Jbeil	Agriculture	28,775		14,500	14,500	43,275
RI-A/III-56	El Ain	Agriculture	11,826		3,800	3,800	15,626
RI-A/III-57	El Nabi Ousman	Agriculture	11,547		4,970	4,970	16,517
RI-PW/IV-58	Kfarsyr	Public works	21,780		14,900	14,900	36,680
RI-A/IV-59	Aytaroun	Agriculture	4,200	6,000		6,000	10,200
RI-PW/V-60	Ksaybeh	Public works	1,450		700	700	2,150

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Code No.	Village	Project sector	AID US\$ funds	Local Contribution			Total Cost US \$
				Land	Labor & Cash	Total \$	
RI-PW/V-61	Sir El Gharbieh	Public works	1,587		700	700	2,287
RI-A/IV-62	Blida	Agriculture	6,500	13,000		13,000	19,500
RI-PW/VI-63	Kfeir	Public works	3,039		1,820	1,820	4,859
RI-A/I-64	Koss Akkar	Agriculture	5,557		1,850	1,850	7,407
RI-PW/VI-65	Kfeir	Public works	3,250		1,410	1,410	4,660
RI-A/V-66	Kfarsyr	Agriculture	23,420		7,920	7,920	31,340
RI-A/VI-67	Ain Harsha	Agriculture	5,003	6,600	2,650	9,250	14,253
RI-A/VI-68	Ain Atta	Agriculture	29,045		12,900	12,900	41,945
RI-A/III-69	EL Nabi Ousman	Agriculture	10,885		6,822	6,822	17,707
RI-A/VI-70	El Khelwat	Agriculture	7,650	8,000	600	8,600	16,250
RI-A/VI-71	Ain Harsha	Agriculture	8,674		3,500	3,500	12,174
RI-A/IV-72	Aytaroun	Agriculture	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	Public works	2,088		950	950	3,038
RI-HE / V-75	Kfarsyr	Health & Educ	1,905		150	150	2,055
RI-A / I-76	Akkar El Attika	Agriculture	9,850		2,667	2,667	12,517
RI -A / II-77	Jibrael	Agriculture	5,698	8,100	1,750	9,850	15,548
RI -A / II-78	Beit Mellat	Agriculture	17,133		3,000	3,000	20,133
RI-A/ III-79	EL Ain	Agriculture	15,893		2,350	2,350	18,243
RI-A / III-80	El Nabi Ousman	Agriculture	19,260		2,000	2,000	21,260
RI-A/ VI-81	Tannoura	Agriculture	13,490		5,433	5,433	18,923
RI-A /V-82	Braykaa	Agriculture	8,037		2,500	2,500	10,537
RI-A/IV-83	Mhaybib	Agriculture	31,452		9,000	9,000	40,452
RI-A / III-84	EL Nabi Ousman	Agriculture	36,962		12,000	12,000	48,962
RI-A/ III-85	EL Ain	Agriculture	12,085		5,133	5,133	17,218
RI-A/II-86	Tekrit	Agriculture	54,620		16,550	16,550	71,170
RI-HE / II-87	Dahr el laysyneh	Health & Educ	16,494		7,000	7,000	23,494
RI-PW /III-88	EL Ain	Public works	14,347		2,667	2,667	17,014
RI-PW /V-89	Sir el Gharbieh	Public works	760		700	700	1,460
RI-PW /V-90	Jibsheets	Public works	28,388		15,300	15,300	43,688
RI-PW /V-91	Kfarsyr	Public works	9,610		5,000	5,000	14,610
RI-PW /V-92	Jibsheets	Public works	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 sector	AID US\$ funds	Local Contribution			Total Cost US \$
				Land	Labor & Cash	Total \$	
RI-PW /V-94	Ain ebel	Public works	27,106		9,000	9,000	36,106
RI-A/VI-95	Beit Lehya	Agriculture	7,694	5,500	3,200	8,700	16,394
RI -PW/VI-96	Mymess	Public works	13,960		7,500	7,500	21,460
RI -PW/III-97	EL Nabi Ousman	Public works	9,938		6,000	6,000	15,938
RI -A /III - 98	EL Nabi Ousman	Agriculture	22,824		6,673	6,673	29,497
RI - A /III -99	El Ain	Agriculture	1,368		300	300	1,668
RI-HE/ 100	All clusters	Health & Educ	15,895		-	-	15,895
RI-PW/VI-101	Ain Harsha	Public works	2,887		800	800	3,687
RI-A/I-102	Akkar El Attika	Agriculture	6,500	10,000		10,000	16,500
RI-A/I-103	Akkar El Attika	Agriculture	33,543		13,500	13,500	47,043
RI-A/I-104	Shakdouf Akkar	Agriculture	12,986		5,000	5,000	17,986
RI-A/I-105	Aayat	Agriculture	15,303		5,100	5,100	20,403
RI-A/I-106	Akkar El Attika	Agriculture	24,677		7,000	7,000	31,677
RI-A/I-107	Akkar El Attika	Agriculture	15,490		6,500	6,500	21,990
RI-A/I-108	Akkar El Attika	Agriculture	8,020		3,200	3,200	11,220
RI-A/V-109	Braykaa	Agriculture	29,518		4,300	4,300	33,818
RI-A/V-110	Sir el Gharbieh	Agriculture	19,580		4,400	4,400	23,980
RI-A/V-111	Jibsheets	Agriculture	7,917		3,391	3,391	11,308
RI-PW/V-112	Ksaybeh	Public works	14,904		16,600	16,600	31,504
RI-A/II-113	Rahbeh	Agriculture	9,650		4,000	4,000	13,650
RI-A/I-114	Koss Akkar	Agriculture	12,596		6,000	6,000	18,596
RI-A/I-115	ElDawra	Agriculture	18,097		7,775	7,775	25,872
RI-A/II-116	Rahbeh	Agriculture	8,540	16,800	5,000	21,800	30,340
RI-PW /VI-117	Marj El zouhour	Public works	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	Agriculture	59,307		20,666	20,666	79,973
RI-HE/VI-123	Marj El zouhour	Health & Educ	8,759		1,350	1,350	10,109
RI-A/IV-124	Ain Ebel	Agriculture	13,528		5,000	5,000	18,528
RI-HE/VI-125	Kfeir	Health & Educ	11,793		4,000	4,000	15,793
RI-HE/V-126	Ksaybeh	Health & Educ	24,921		10,000	10,000	34,921

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Code No.	Village	Project sector	AID US\$ funds	Local Contribution			Total Cost US \$
				Land	Labor &Cash	Total \$	
RI-PW/I-127	Akkar Cluster	Public works	11,104		6,500	6,500	17,604
RI-PW/VI-128	Mymess	Public works	14,995		5,000	5,000	19,995
RI-PW/V-129	Kfarsyr	Public works	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	Agriculture	11,724		26,000	26,000	37,724
RI-A/V-134	Jibsheets	Agriculture	13,244		10,000	10,000	23,244
RI-A/V-135	Kfarsyr	Agriculture	15,000		42,000	42,000	57,000
RI-PW/V-136	Ksaybeh	Public works	10,487		3,150	3,150	13,637
RI-PW/I-137	Shakdoun 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		3,100	3,100	13,475
RI-A/I-140	Akkar el attika	Agriculture	7,961	11,000	1,500	12,500	20,461
RI-HE /II-141	Tekrit	Health & Educ	22,587		20,236	20,236	42,823
RI-A/I-142	Aayat	Agriculture	8,614		3,350	3,350	11,964
RI-PW/ IV-143	Bint jbeil	Public works	9,531		5,181	5,181	14,712
RI-PW/ III-144	Jdaideh el fakiha	Public works	7,258		3,333	3,333	10,591
RI-A/VI-145	El Khelwat	Agriculture	16,500		833	833	17,333
RI-A/VI-146	Kfeir	Agriculture	4,400		30,000	30,000	34,400
RI-A/VI-147	Mymess	Agriculture	8,400		1,000	1,000	9,400
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 Faiha	Health & Educ	7,812		5,800	5,800	13,612
RI-A /III-151	El Nabi Ousman	Agriculture	7,200		1,500	1,500	8,700
RI-PW/VI-152	Beit Lehya	Public works	6,396		6,000	6,000	12,396
RI-PW/V-153	Jibsheets	Public works	10,685		7,000	7,000	17,685
RI-PW/VI-154	Ain atta	Public works	9,586		3,000	3,000	12,586
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	Agriculture	1,250	6,500	-	6,500	7,750
RI-A/III - 159	EL Nabi Ousman	Agriculture	15,972		15,800	15,800	31,772

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Code No.	Village	Project sector	AID US\$ funds	Local Contribution			Total Cost US \$
				Land	Labor & Cash	Total \$	
RI-PW/V-160	Kfarsyr	Public works	8,778		25,529	25,529	34,307
RI-A /I-161	ElDawra	Agriculture	12,540	9,000		9,000	21,540
RI-HE /VI-162	Tannoura cluster	Health & Educ	1,351				1,351
RI-HE /II 163	Rahbeh	Health & Educ	7,000		7,000	7,000	14,000
RI-PW/VI-164	Tannoura	Public works	5,131		5,000	5,000	10,131
RI-A /II-165	Dahr el laysineh	Agriculture	6,720	4,000		4,000	10,720
RI-A /I-166	Shakdouf Akkar	Agriculture	3,300	3,000		3,000	6,300
RI-A /VI-167	Mymess	Agriculture	18,493		13,333	13,333	31,826
RI-A /II-168	Rahbeh	Agriculture	16,570		8,000	8,000	24,570
RI-HE/VI- 169	Khelwat	Health & Educ	2,385		1,100	1,100	3,485
RI -PW/III-170	EL Nabi Ousman	Public works	3,538		1,500	1,500	5,038
RI-PW/ III-171	Jdaideh el fakiha	Public works	5,000		500	500	5,500
RI-PW/ III-172	Jdaideh el fakiha	Public works	23,111		26,400	26,400	49,511
RI-A /IV-173	Mays El Jabal	Agriculture	15,600		90,000	90,000	105,600
RI-HE /III-174	EL Nabi Ousman	Health & Educ	10,191		3,376	3,376	13,567
RI-HE /175		Health & Educ	1,618				1,618
RI-A /I-176	Koss Akkar	Agriculture	9,550		5,000	5,000	14,550
RI-A /III-177	Jdaideh el fakiha	Agriculture	18,178		8,100	8,100	26,278
RI-A /I-178	Aayat	Agriculture	4,710	5,400		5,400	10,110
RI-PW /I-179	Koss Akkar	Public works	14,238		15,000	15,000	29,238
RI-PW /VI-180	El khelwat	Public works	5,750		500	500	6,250
RI-PW /V-181	Akkar El Attika	Public works	17,520		5,000	5,000	22,520
RI-PW /VI-182	Tannoura	Public works	3,255		3,000	3,000	6,255
RI-PW /IV-183	Bint Jbeil	Public works	35,000		14,500	14,500	49,500
RI-PW /IV-184	Aytaroun	Public works	13,350		8,500	8,500	21,850
RI- A/IV-185	Hanine	Agriculture	10,478		3,000	3,000	13,478
RI- A/IV-186	Hanine	Agriculture	976	2,000		2,000	2,976
RI-PW /IV-187	Kantara	Public works	50,000		32,000	32,000	82,000
RI-PW /IV-188	Rab Et Talatine	Public works	10,000		1,000	1,000	11,000
RI- A/IV-189	Bany Hayan	Agriculture	1,143	2,000		2,000	3,143
RI- A/III-190	El Ain	Agriculture	3,168		1,500	1,500	4,668
RI- A/VIII -191	Soujoud	Agriculture	37,000		9,600	9,600	46,600
RI- A/VIII -192	Rihane	Agriculture	33,000		12,000	12,000	45,000
RI- A/VIII -193	Qotrani	Agriculture	10,000	4,400		4,400	14,400

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Code No.	Village	Project sector	AID US\$ funds	Local Contribution			Total Cost US \$
				Land	Labor &Cash	Total \$	
RI- A/VIII -194	El Srire	Agriculture	9,250	3,100		3,100	12,350
RI- A/VIII -195	Mlikh	Agriculture	9,600	6,000		6,000	15,600
RI- A/VIII -196	Aramta	Agriculture	11,600	6,000		6,000	17,600
RI- A/VIII -197	Rihane	Agriculture	18,000		8,500	8,500	26,500
RI- PW/VI -198	Aita El Foukhar	Public works	94,000		65,600	65,600	159,600
RI-A/VI -199	Aita El Foukhar	Agriculture	25,000		4,000	4,000	29,000
RI- A/VI -200	Bekka	Agriculture	14,500		4,200	4,200	18,700
	Jibrael	Agriculture	31,475		-	-	31,475
	Akkar	Agriculture	18,680		5,000	5,000	23,680
	EL Nabi Ousman	Agriculture	17,531		5,000	5,000	22,531
	Kfarsyr	Agriculture	500		-	-	500
	Tannoura	Agriculture	518		-	-	518
<b>Total Rural Infrastructure U.S.\$</b>			<b>2,827,004</b>	<b>707,750</b>	<b>1,375,487</b>	<b>2,083,237</b>	<b>4,910,241</b>
EM /I - 1	Akkar El Attika	Environment	53,904	8,000	18,000	26,000	79,904
EM /VI - 2	Tannoura Cluster	Environment	12,928		2,330	2,330	15,258
EM /V - 3	Sir El Gharbieh	Environment	2,609		300	300	2,909
EM /II - 4	Tekrit	Environment	2,000		-	-	2,000
EM /I - 5	Koss Akkar	Environment	131,116	6,000	40,000	46,000	177,116
EM /V - 6	Kfarsyr Cluster	Environment	160,000	44,600	40,000	84,600	244,600
EM /V - 7	Kfarsyr Cluster	Environment	5,725		2,266	2,266	7,991
EM /I - 8	Akkar Cluster	Environment	3,206		1,000	1,000	4,206
EM /VI - 9	Marj El Zouhour	Environment	130,000	10,000	60,000	70,000	200,000
EM /II -10	Rahbeh	Environment	15,000				15,000
EM /II - 11	Jibrael	Environment	3,629		10,000	10,000	13,629
EM /IV -12	Bint Jbeil	Environment	6,375		2,175	2,175	8,550
EM /V -13	Kfarsyr	Environment	4,759		2,150	2,150	6,909
EM/VI-14	Tannoura Cluster	Environment	3,000		400	400	3,400
EM /V -15	Kfarsyr Cluster	Environment	200,000	18,000	2,000	20,000	220,000
EM /VI -16	Kfeir	Environment	21,274		3,500	3,500	24,774
EM /VI -17	I&II	Environment	20,000		8,000	8,000	28,000
EM /III - 18	El Nabi Ousman	Environment	20,000		20,000	20,000	40,000
EM /V -19	Kfarsyr	Environment	15,000		7,000	7,000	22,000
EM /VI -20	Kfeir	Environment	9,035		5,000	5,000	14,035
EM /IV -21	Mays EL Jabal	Environment	200,000	20,000	60,000	80,000	280,000
EM /I -22	Akkar El Attika	Environment	200,000	20,000	60,000	80,000	280,000
EM /I -23	Akkar Cluster	Environment	15,000				15,000
<b>Total Environmental Activities U.S.\$</b>			<b>1,234,560</b>	<b>126,600</b>	<b>344,121</b>	<b>470,721</b>	<b>1,705,281</b>
<b>Total Rural &amp; Environmental Activities U.S.\$</b>			<b>4,061,564</b>	<b>834,350</b>	<b>1,719,608</b>	<b>2,553,958</b>	<b>6,615,522</b>

**Projects under execution in collaboration with Council of the South**

Hanine	Rehabilitation of one water source	9,000
Yarine	Construction of one potable water	74,000
Dhaira	Construction of one potable water	20,000
<b>Total</b>		<b>103,000</b>

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**ANNEX D**  
**Jibrael Demonstration Plot**

Detailed review of the vegetable crops that have been introduced in the subject farm is presented in the following table. In addition, new types of fruit trees such as kiwi and persimmon have been cultivated. New cultural practices associating crop rotation, weeding, fertilizer application, proper pressurized drip irrigation system, appropriate harvesting techniques and packing methods have all been extensively exposed. Also, some agriculture machinery devices for tillage were introduced and tried on-site: a small cultivator to destroy weeds, loosen and aerate the soil is progressively used through the whole growing season substantially reducing the amount of human labor for raising crops.

**Vegetable crops introduced in Jebrail demonstration plot:**

<b>CROP</b>	<b>VARIETY</b>	<b>RATIONALE</b>
Beans	Veronica & Plaja	New varieties of crops already cultivated in the area have been introduced and tested for: <ul style="list-style-type: none"> <li>• Higher yield</li> <li>• Higher marketable value,</li> <li>• Higher return.</li> </ul>
Cabbage	Red Rookie & Colchat	
Carrots	Nantesa Coral	
Cauliflower	Ceblan -7	
Cucumber	Veros F1	
Pepper	F1 Yellow Castelo & Pekin F1 229/96 Dark Red & Tanger	
Radish	Vermell	
Squash	Lima hyb-F1	
Sweet corn	Jubilee	
Tomato	Golden	
Brussel sprouts	Choux de bruxelles & Jade cross	New crops suitable for cultivation in the area which fit the climatic and soil conditions have been introduced and tested for <ul style="list-style-type: none"> <li>• Better quality.</li> <li>• Higher economic value</li> <li>• Increased market demand.</li> </ul>
Broccoli	Hyb F-1	
Celery	Florida n.683, Plein Blanc Dore & Plein Blanc Pascal	
Chicory	Belgian	
Fennel	Florence	
Melon	Indalico & Amarillo Oro	
Pumpkin	Cabello deAngel	
Spinach	Lenta hyb-F1	

**Pilot Fruit Trees Prototype Farms**  
**Akkar El Atika & Nabi Osman**

Best practices are being demonstrated in the subject farms 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) 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 techniques, to frame the shape and increase fruit size, were exposed along with essential soil management practices such as proper tillage; maintenance of a proper supply of organic matter and nutrient in the soil.

**Fruit trees varieties introduced in Akkar al Attika and Nabi Osman prototype farms.**

<b>TREES</b>	<b>Variety</b>	<b>Cluster</b>
<b>Pears</b>	<b>Homored/ FAROLD 87 Williams /FAROLD 87 Packhams Triumph/FAROLD 87 Dr. Jules Guyot/FAROLD 87</b>	<b>Akkar el Attika &amp; Nabi Osman</b>
<b>Nectarine</b>	<b>Jade Emeraude Topaze September Queen</b>	<b>Akkar el Attika &amp; Nabi Osman</b>
<b>Apples</b>	<b>Early Red One/M9EMLA Topsur/MM109 Washington Spur/MM111 Fuji Lavee/EM109 Mondial Gala/EM109 Golden Delicious/EM109 Smoothee/EM9</b>	<b>Akkar el Attika &amp; Nabi Osman</b>
<b>Cherries</b>	<b>Hardy Giant Duroi N°3 Noire de Meched Summit Van</b>	<b>Akkar el Attika &amp; Nabi Osman</b>
<b>Nashis</b>	<b>Niuisseiki Shimsseiki</b>	<b>Akkar el Attika</b>

**Agricultural Skills Training**  
**October 1, 1997 – March 31, 2001**

Training sessions, held in Jebrayel farm covered topics such as fertilizer use and application, weed control, appropriate methods and techniques for water saving, pest and disease control on vegetables along with improved crop varieties, mechanization and modern technology. Information relayed in the sessions would enable the local farmers to grow high yielding crops of good quality and adequate economic return at a lower cost, of production.

***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 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 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 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 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>
<i>Training &amp; pruning Kiwi trees</i>	5/4/00	Tekrit & Akkar attika	17	6	<ul style="list-style-type: none"> <li>• Kiwi trees production: growth requirements, climate and water demand</li> <li>• Appropriate pruning techniques</li> <li>• Cultural practices for growing fruit trees.</li> </ul>
<i>Pruning &amp; propagating Kiwi trees</i>	21/3/01	Tekrit	14	4	<ul style="list-style-type: none"> <li>• Training &amp; pruning techniques for kiwi trees</li> <li>• Propagation techniques by cuttings</li> </ul>
<b>TOTAL</b>			<b>301</b>	<b>8</b>	

**Pilot fruit trees prototype farm.**

Training sessions were provided to assist farmers in solving their most serious orchard management problems as an attempt to increase their productivity. 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

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	Al Ain	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	
<i>Training and pruning dwarf fruit trees</i>	31/3/00	Akkar	16	2	<ul style="list-style-type: none"> <li>• Demonstration of the appropriate pruning technique</li> <li>• Training trees for increasing the quality and quantity of fruits.</li> </ul>
	6/4/00	Al Ain	13	1	
<i>Disease and pests on apples and pears</i>	26/4/00	Akkar	50	4	<ul style="list-style-type: none"> <li>• Timing and quantity of chemicals used for best results</li> <li>• Safest method of using the adequate chemical and safety measures to be followed.</li> </ul>
	5/5/00	Al Ain	50	1	
<i>Grafting</i>	5/7/00	Al Ain	25	1	<ul style="list-style-type: none"> <li>• Demonstration of grafting by budding and T-bud</li> <li>• Exposing the summertime grafting technique T-bud</li> </ul>
<i>Pruning and training of fruit trees</i>	25/3/01	Akkar	13	1	<ul style="list-style-type: none"> <li>• Proper pruning and training technique for planted trees</li> <li>• Effects of pruning on the structure and frame of trees</li> </ul>
<b>TOTAL</b>		<i>Al Ain</i>	<b>208</b>	<b>4</b>	
		<i>Akkar</i>	<b>173</b>	<b>6</b>	

**Table 3.3: 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>		<b>Ksaybeh Tannoura</b>	<b>78</b>	<b>5</b>	

# YMCA - Clusters

<b>(1) Cluster Aakkar EL Aatiqa - North Lebanon - 3 villages</b>				
Aakkar El Aatiqa		Aaiyat		
(Koss& Shakdouf Akkar )		Daoura		
<b>(2) Cluster Tikrit - North Lebanon - 6 villages</b>				
Tikrit		Beit Mellat		
Ilat		Rahbe		
Dahr El Laysyneh		Jebrayel		
<b>(3) Cluster ELAin - Baalbeck - 4 villages</b>				
ELAin		En Nabi Osmane		
Jdaidet El Fakha		El Fakha & Zaytoun		
<b>(4) Cluster Bent Jbail - South Lebanon - Cluster expansion - 22 villages</b>				
*BentJbail	*Ain ebel	*Yaroun	*Marouahine	*Rabb Et Talatine
*Ainata	*Blida	*Houla	*Zalloutiye	Beni Haiyan
*Maroun er ras	*Meis el Jabal	*Markaba	*Dhaira	Hanine
*Aaitaroun	*Mhaibib	*Talloussa	*Btaichiye	El kantara
		*Et Taibe	*Yarine	
<b>(5) Cluster Nabatiye - South Lebanon - Cluster expansion - 17 villages</b>				
*Kfarsir	*El Qsaibe	En Nabatiye	Kfar Tebnit	Kfar Roummane
*Sir El Gharbiye	*Jibchit	Maifadoun	Arnoun	Zaoutar ech Charqiye
*Braiqa		Choukine	Habbouch	Zaoutar el Gharbiye
*Aadchit		En Nabatiye El Faouqa	Qaaqaiet El Jisr	
<b>(6) Cluster Rachaya - Hasbaya - Cluster expansion - 14 villages</b>				
*Ain Aata	*Marj El Zouhour	Aaita El Foukhar	Mdoukha	
*Ain Hourche	*Mimes	Ain Aarab	Khirbet Rouha	
*Tannoura	*El Khalouat	Yanta		
*Beit Lahia	*El Kfair	Bekka		

***(7) Cluster Tyre - South Lebanon - New Cluster - 20 villages***

<b><i>*Maarake</i></b>	<b><i>*Chehour</i></b>	<b><i>El Bazouriye</i></b>
<b><i>*Aabbassiye</i></b>	<b><i>*Maaroub</i></b>	<b><i>El Chhabiye</i></b>
<b><i>*Deir Qanoun En Nahr</i></b>	<b><i>Qana</i></b>	
<b><i>*Tairfalsay</i></b>	<b><i>Deir Aamess</i></b>	
<b><i>*Elhmayry</i></b>	<b><i>El Biyad</i></b>	
<b><i>*Derdghaya</i></b>	<b><i>Zebqine</i></b>	
<b><i>*Barich</i></b>	<b><i>Aaitit</i></b>	
<b><i>*Ghandouriye</i></b>	<b><i>Hanaouay</i></b>	
<b><i>*Arzoun</i></b>	<b><i>Borj Ech Chemali</i></b>	

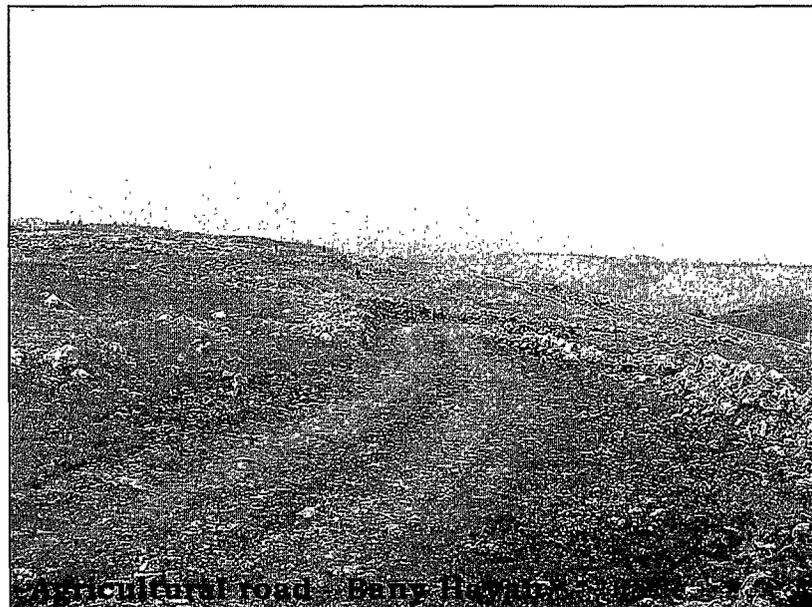
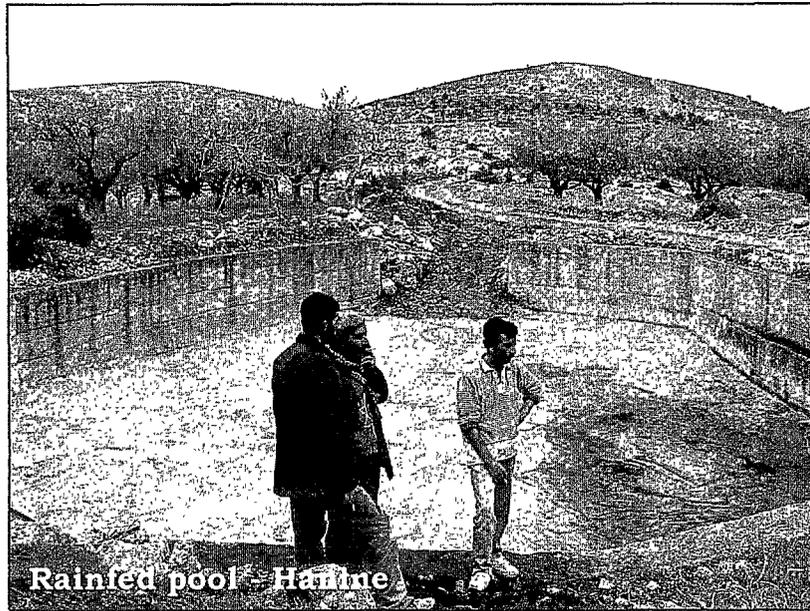
***(8) Cluster Jabal Er Rihane - South Lebanon - New Cluster - 9 villages***

<b><i>Jabal Er Rihane</i></b>	<b><i>Sejoud</i></b>
<b><i>Aaramta</i></b>	<b><i>El Aachiye</i></b>
<b><i>Mlikh</i></b>	<b><i>El Jarmaq</i></b>
<b><i>Es Srairi</i></b>	<b><i>El Qatrani</i></b>
<b><i>Maidoun</i></b>	

***\*\* Bold and Italic refer to new /expanded villages \* 416 B***

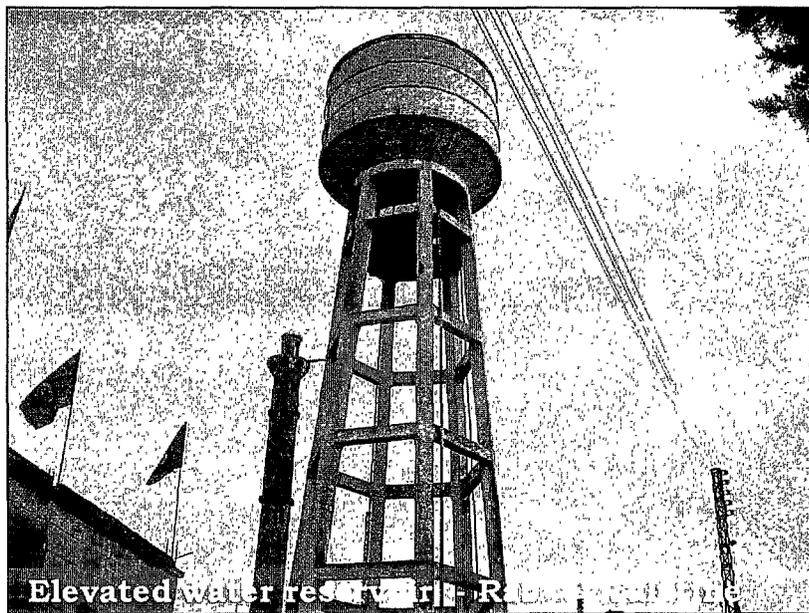
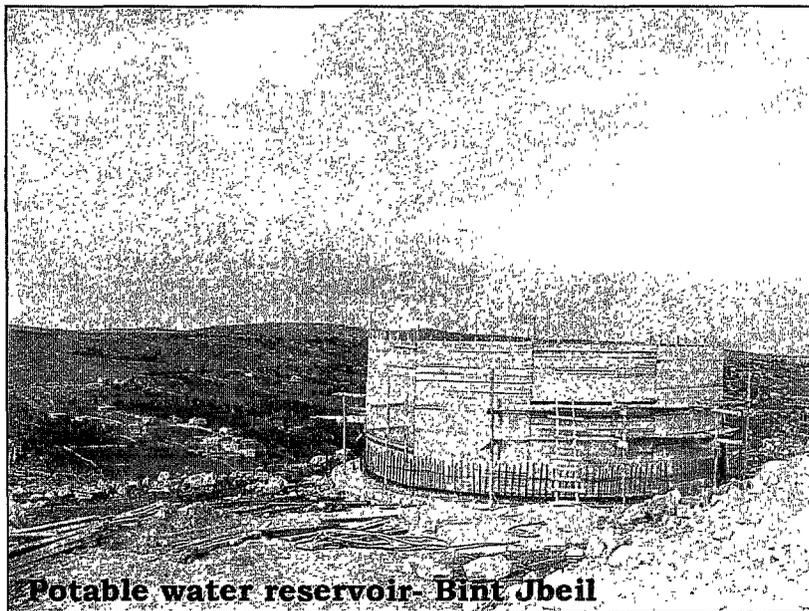
# YMCA - Integrated Rural Development Program

## Rehabilitation of Agriculture Infrastructure Bint Jbeil Cluster



# YMCA - Integrated Rural Development Program

## Rehabilitation of Public Works Infrastructure Bint Jbeil Cluster



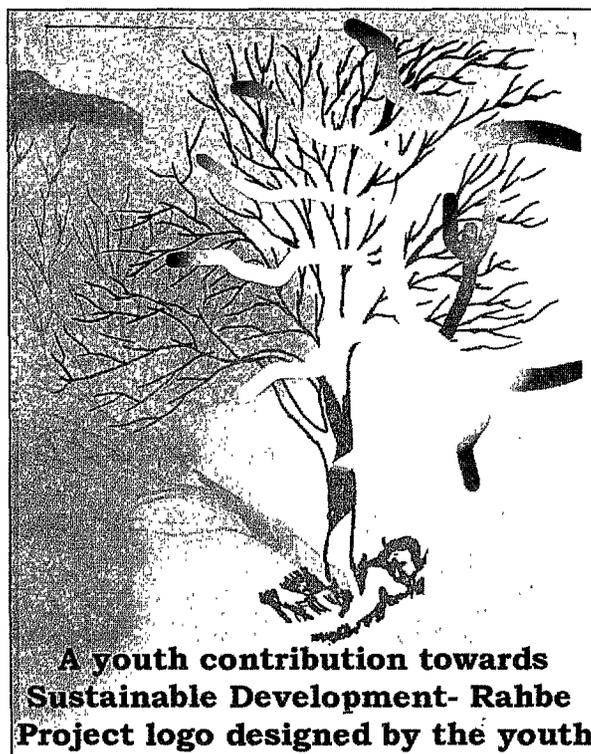
# YMCA - Integrated Rural Development Program

Introduction & Training on new tree varieties :  
Olives ,Carobs & Laurus  
Bint Jbeil Cluster



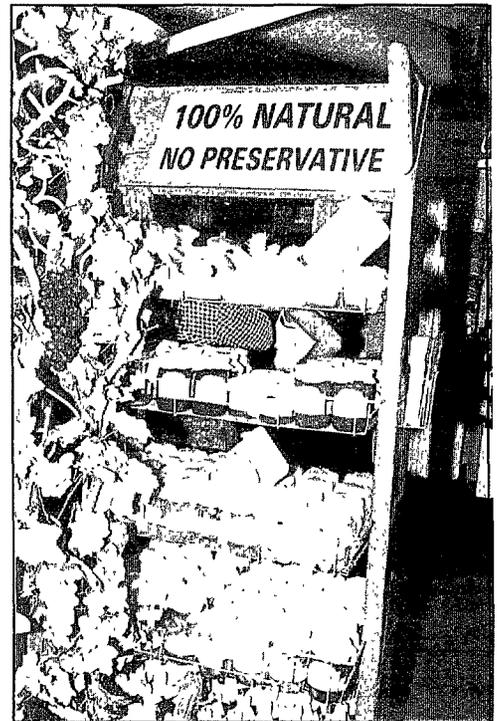
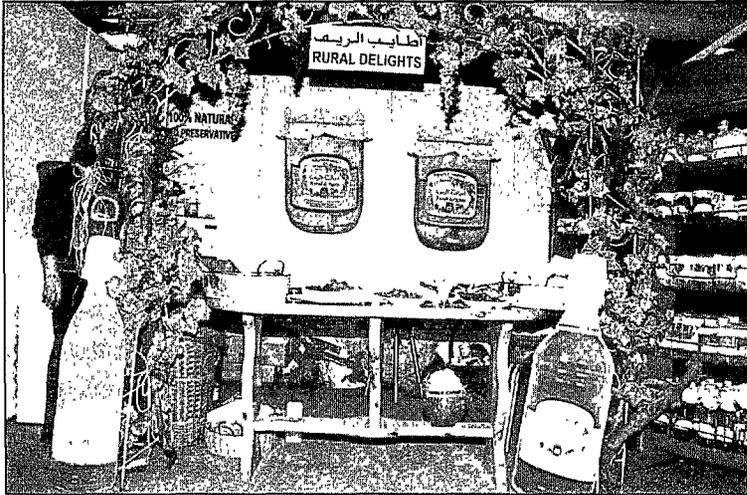
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## Community Environmental Management



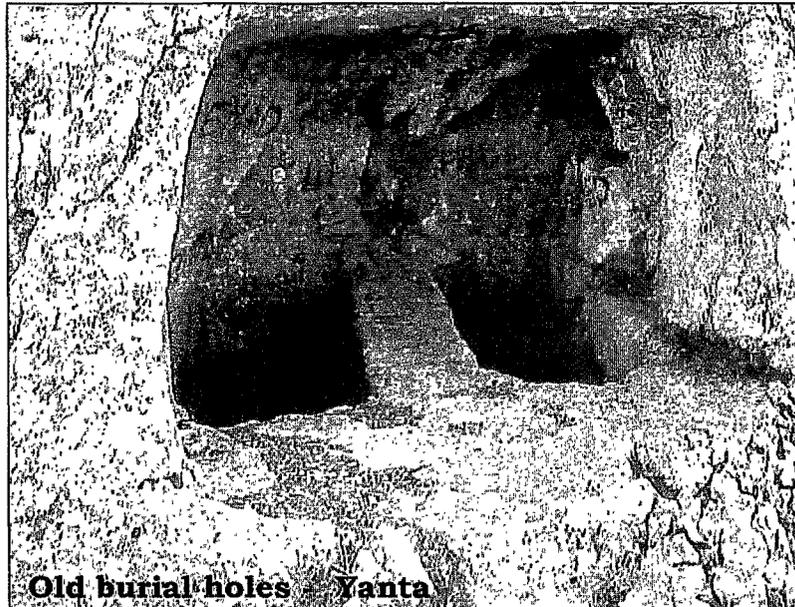
# YMCA - Integrated Rural Development Program

Agricultural Income Generation for women  
Horeca 2001 Exhibition



# YMCA - Integrated Rural Development Program

Western Beka'a Cluster - Tourism possibilities



# YMCA - Integrated Rural Development Program

Western Beka'a Cluster - Tourism possibilities

