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Middle East & North Africa John Ogonowski & Doug Bereuter Farmer-to-Farmer (F2F) Program



Final Report

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LIST OF ACRONYMS

AERI	Agriculture and Rural Incomes
ATC	Agricultural Technology Center
ATS	Agricultural Technical Schools
EMTI	Egypt Ministry of Trade and Industry
F2F	John Ogonowski Farmer-to-Farmer
FGDs	Focus Group Discussions
GDA	Global Development Alliance
HQ	Headquarters
IALC	International Arid Lands Consortium
LWA	Leader with Associates
M&E	Monitoring and Evaluation
MENA	Middle East and North Africa
PAL	Alexandria University's Precision Agriculture Laboratory
PRIME	Project Reporting, Information, Monitoring and Evaluation System
SOW	Scope of Work
UF/IFAS	University of Florida's Institute of Food and Agricultural Sciences
UPEC	Union of Producers and Exporters of Horticultural Crops
USAID	United States Agency for International Development
USG	United States Government

EXECUTIVE SUMMARY

ACDI/VOCA and partners, Winrock International and Land O' Lakes International, successfully completed the five-year 2008-2013 John Ogonowski Farmer-to-Farmer (F2F) Middle East and North Africa (MENA) program. F2F MENA was implemented in core countries Egypt and Lebanon and flexible countries in MENA, Jordan, Morocco, Tunisia, as well as in Kyrgyzstan, Ethiopia and Columbia. The F2F MENA primary program objective was to increase agricultural sector productivity and profitability. F2F MENA interventions were designed and implemented to complement USAID and other donor programs currently being implemented in the target countries in order to maximize the impact of short-term assignments.

During the program we successfully completed 383 assignments, directly assisting 18,185 people, of who 23 percent were women. A total of 135 host organizations benefitted from program assistance and program volunteers donated a total of 5,878 volunteer days, and hosts provided 505,759 USD assistance for a total of 4,143,979 USD in leverage.

The program focused principally on the horticulture, livestock and dairy subsectors in Egypt and Lebanon with flexible country assignments predominately addressing apiculture, aquaculture, business services, marketing, organizational strengthening, and food processing and safety. The program achieved profound and lasting change in its targeted subsectors. Achievements were made through increasing farmer skills and capacity of organizations, institutions and enterprises for more efficient value chains and agro-industrial value-added activities which supported inclusive growth in MENA.

The F2F MENA team not only identified strategic hosts, developed targeted scopes of work and recruited and fielded highly qualified expert volunteers, but also conducted influential outreach activities both in the U.S. and the MENA region to promote the F2F MENA program, U.S. volunteerism and the impact and information tied to individual assignments. F2F MENA assignments promoted the organization of marginalized smallholder farmers and entrepreneurs and their integration into the larger economy, along with the networking and information sharing among educational, research, and government institutions.

F2F MENA built a positive image of the US throughout the target countries, which is an integral to the success of F2F. Many of challenges facing the MENA agriculture sector were addressed during the five-year program. Across the region, return assignments and follow-on assignments with similar hosts reduced volunteer learning curves in subsequent assignments, which yielded great impact and most importantly, emphasized the linkages created between volunteers and MENA agriculture stakeholders.

"It is amazing to witness the tremendous progress and adoption of new technologies occurring in Lebanon since my first visit there in July, 2009. I have seen a tremendous increase in understanding of principles as a result of the F2F assignments that I have made to Lebanon. Minds have been changed and nutrition and feeding of dairy cows have been improved as a result."

ACDI/VOCA Volunteer: Archie Devore

Prior to the historic Arab Awakening which started in January 2011, F2F MENA had some modest security challenges, but after the Awakening, especially in Egypt, concerns increased which

affected our recruiting. To address this we assured volunteers were fully aware of our security protocols and put potential volunteers in contact with previous volunteers and our local staff. In the end we successfully made our targets and achieved good results as reflected in impact assessments conducted over the final months of program implementation.

Despite these challenges, year 5 of F2F MENA has seen one of the largest numbers of experts over the LOP volunteering their time in the region. Please see Annex 2 for Year 5 volunteer assignment summaries.

During the life of the project (LOP), the F2F MENA team continually collected information and feed it into our Project Reporting, Information, Monitoring and Evaluation System (PRIME). Staff conducted pre-and-post assignment briefings with volunteers and host organizations and both provided feedback through our post-assignment online survey. In addition, prior to program end quantitative and qualitative survey assessments of assignment impact with host organizations were conducted.

One of the most profound impacts and lasting changes occurred in Lebanon where livestock veterinary services and surgical techniques were modified and adopted at a national level, saving endless amounts of livestock and thus significantly increasing smallholder ranchers' incomes. The work in feeding rations in both Egypt and Lebanon are also having dramatic effects on income earned from livestock, also in Egypt assignments that addressed food safety and export requirements have opened up new opportunities for many smallholder producers. Flexible assignments in Jordan and Morocco assisted and empowered women managed businesses towards a market demand orientation, new product development, and increased sales and income.

The F2F is a Leader with Associate (LWA) cooperative agreement, and to complement core program activities ACIDI/VOCA generated three USAID - mission funded associated awards in Lebanon, the QCC and DHAIM programs, and one in Liberia - SHOPS. These Associate Award programs added value to our core F2F activities enabling us to engage select host organizations and program beneficiaries in deeper impact activities and leverage additional resources to spread overall F2F behavior change and information.

ACIDI/VOCA with its talented and resourceful staff and implementing partners, identified strategic hosts, developed assignments that provided key interventions in the target subsectors and fielded volunteers while proactively responding to security challenges. As a result the F2F MENA program created lasting behavior change, exceeded targets and achieved the desired impacts and results.

INTRODUCTION

The F2F MENA five-year program began implementation on October 2008 with the core countries Egypt and Lebanon and flexible countries, Jordan, Morocco and Tunisia. ACDI/VOCA was the prime implementer of F2F MENA but was supported by U.S. implementing partners Winrock International and Land O'Lakes International. Winrock provided special recruitment support to natural resource management and organizational development, while Land O'Lakes added value in livestock and dairy management.

F2F MENA objectives were to achieve cost-effective, subsector-focused impacts for rapid, sustained and broad-based economic growth in select agricultural subsectors as well as the secondary objective of increasing the American public's understanding of international development and international understanding of U.S. development programs.

The F2F MENA program built sustainability and competitiveness in Egypt, and Lebanon's horticulture and livestock and dairy subsectors through targeted and strategic volunteer technical assistance. In flexible countries assignments mainly addressed value chain concerns in apiculture, aquaculture, horticulture and livestock through improving business services, marketing, organizational strengthening and food processing and safety.

F2F MENA set overall targets for the number of volunteers per core country and flexible country and by project type in the full country project designs, and work plans.

MENA F2F Volunteer Assignment Results

Country	Project	Assignment Target	Completed Assignments	% of Target Assignments	Direct Beneficiaries	Volunteer Days	% Women Volunteers
Egypt	Horticulture	70	112	160%	6,046	1,694	15%
Egypt	Dairy/Livestock	85	33	39%	1,334	490	15%
Egypt	Flexible	17	38	224%	2,200	537	21%
Lebanon	Horticulture	64	58	91%	2,129	855	10%
Lebanon	Small Ruminants	47	43	91%	2,025	648	0%
Lebanon	Flexible	15	31	207%	1,211	540	19%
Non-Core	Various	40	68	170%	3,240	1,114	26%
Total		338	383	113%	18,185	5,878	16%

The Egypt horticulture project worked to enhance the competitiveness of this sub-sector in Upper Egypt by expanding agro-processing and exports, improving natural resource management and strengthening agricultural organizations. The Egypt livestock/dairy project

focused on improving daily milk production and extending the milking season to increase income for smallholder dairy farmers. Lebanon small ruminant livestock project enhanced the competitiveness of smallholder goat and sheep farmers to improve farm management, animal health, milk handling, processing and quality control. The Lebanon horticulture project increased the competitiveness of Lebanon's fresh fruit and vegetable producers by improving farm management, production yield, product quality, and post-harvest handling.

F2F MENA VOLUNTEER ASSIGNMENTS SUMMARY

In F2F MENA there were 383 volunteer assignments completed, of which 48 percent were in Egypt, 34 percent were in Lebanon, and 18 percent were in flexible non-core countries. We exceeded our original target of 338 by 45 assignments or 13 percent. While it has been difficult to recruit and field volunteers for Egypt and Lebanon subsectors, we were able to exceed our targets by focusing most of the assignment in the last six months of the program on flexible countries.

The recruiting of volunteers in Egypt, Lebanon and F2F MENA non-core flexible countries was at times difficult as many volunteers had security concerns and this only became aggravated after the Arab Awakening began in January 2011. To address this we shared our security protocols with each prospective volunteer and put them in touch with other volunteers, staff, or consultants that had traveled to the respective country to assuage concerns. Where possible we tapped into MENA networks in the U.S. to recruit Arab speaking Americans with the required skill set, we also utilized our partners Winrock International, and Land O' Lakes International to diversify our recruitment base much as possible. We did recruit Hispanic, Asian and African American volunteers, but because the collection of minority data is voluntary and most volunteers opted not to answer race related questions in their applications, we are unable to site the specific number; however, our gender data is disaggregated.

Only 16 percent of volunteers who implemented assignments in MENA were women. The percentage of women volunteers was higher in 'flexible' category of assignments, probably due to the higher number of assignment in non-core flexible countries focusing on handicrafts (traditionally a women-focused subsector in MENA), youth and curriculum development.

EGYPT

F2F Egypt completed 183 volunteer assignments (trips) totaling 2,721 volunteer days over the five year program. The table below summarizes volunteer numbers by fiscal year.

Egypt Summary of Volunteer Numbers

	FY09	FY10	FY11	FY12	FY13	LOP
Horticulture	16	21	19	24	32	112
Livestock/Dairy	2	11	6	9	5	33
Flexible	0	8	4	14	12	38
Total	18	39	29	47	49	183

The majority of assignments in Egypt (61 percent) were in the Horticulture Country F2F Project, followed by flexible (21 percent) and Livestock/Dairy (18 percent). The original volunteer target

was to field 172 volunteers in Egypt over the five-year program. Despite security concerns, F2F Egypt was able to exceed the overall targets for volunteer assignments however the volunteers preferred to keep assignment for no longer than two weeks. With the average assignment lasting 14 days, we have met 88 percent of our target for the volunteer days (2,721 out of 3,096). With the political instability since January 2011, it made it difficult to recruit volunteers and complicated in-country logistics. Thus fielding volunteers for shorter duration was a programmatic compromise we have made to pursue the targets.

LEBANON

F2F Lebanon completed 132 volunteer assignments (trips) totaling 2,043 volunteer days over the five year program. The table below summarizes volunteer numbers by fiscal year.

Lebanon Summary of Volunteer Numbers

	FY09	FY10	FY11	FY12	FY13	LOP
Horticulture	9	16	11	15	7	58
Small Ruminants	6	9	9	8	11	43
Flexible	1	11	6	1	12	31
Total	16	36	26	24	30	132

The majority of assignments in Lebanon (44 percent) were in the Horticulture Country F2F Project, followed by Small Ruminants (33 percent) and then Flexible (23 percent). Lebanon met its original targets with assignment number increase by four, despite issues with security and difficult recruitment, as the program popularity grew and in turn local demand. However, we met 90 percent of the total volunteer days target, as, similar to the case in Egypt, the volunteers stayed on average for two weeks or less.

NON-CORE FLEXIBLE COUNTRIES

F2F MENA non-core flexible countries completed 68 volunteer assignments (trips) totaling 1,114 volunteer days over the five year program. Non-core flexible assignments had the highest number of women volunteer recruiters fielded (26 percent), due to the women-focused technical assignments (such as handicrafts, tourism-based livelihoods, etc.) Please see below assignment numbers by FY.

Non-core Flexible County Summary of Volunteer Numbers

	FY09	FY10	FY11	FY12	FY13	LOP
Jordan	0	6	8	6	26	46
Morocco	0	0	3	1	12	16
Tunisia	0	0	0	0	2	2
Other	1	0	0	0	3	4
Total	1	6	11	7	43	68

Flexible assignments took place in Jordan, Morocco, Tunisia, Ethiopia, Kyrgyzstan, India and Colombia. Assignments addressed a variety of agriculture or other income-generating opportunities in each of the flexible countries, strengthening eco-tourism-based income generation subsectors such as herb and lavender production as well as more traditional apiculture, horticulture, livestock sectors, through improving business services, marketing, organizational strengthening and food processing and safety.

F2F MENA OUTPUTS SUMMARY

EGYPT

F2F Egypt volunteers assisted 9,580 individuals (19 percent women) from 51 host organizations, the majority of whom were farmers groups and nonprofit groups benefitting from the USAID-funded Heinz GDA project. Volunteers provided 1,425 major recommendations to these host organizations, to help them make key improvements to their profitability, productivity and organizational effectiveness. A significant majority (78 percent) of Egypt volunteer assignments were focused on technology transfer. These included demonstrations in tomato nursery production, field leveling, processing, collection technologies, etc.

With 106 percent of the originally planned volunteer assignments completed, F2F Egypt achieved 186 percent of the target for persons assisted (9,580 against a target of 5,160). While we have exceeded the proposed female beneficiary targets in both ‘assisted’ and ‘trained’ categories, these did not exceed 22 percent of women targeted. There are definitely opportunities for the next F2F implementer in MENA to increase the number of women targeted in the region in a gender-sensitive way.

LEBANON

F2F Lebanon volunteers assisted 5,365 individuals (24 percent women) from 42 host organizations, the majority of whom were farmers, agribusiness entrepreneurs and nonprofit foundations who provide extension services to farmers. Volunteers provided 925 major recommendations to these host organizations, to help them make key technical improvements and better management strategies. Ninety-five percent of volunteer assignments were focused on technology transfer in each of the subsectors.

The program has exceeded the planned volunteer assignments completed and the targets for persons assisted and trained, as well as the target for women beneficiaries.

NONE-CORE FLEXIBLE COUNTRIES

F2F MENA flexible country volunteers assisted 3,240 individuals (30 percent women) from 28 host organizations, the majority of whom were cooperatives and associations, including women cooperatives engaged in handicrafts, youth development, alternative income-generation activities, such as lavender production. Volunteers provided 303 major recommendations to these host organizations, with nearly all assignments being technology transfer types.

We have significantly exceeded all targets for non-core flexible country assignments. This was intentional to meet (or come close to) to the total volunteer days in MENA. With the security situations in Lebanon and Egypt making recruitment difficult, spreading F2F reach and scope to Jordan, Morocco and Tunisia allowed us to bring positive reflections on other communities in the region of the contributions of American experts in their growth.

All flexible assignments were implemented as the result of interest either from the host governments or USAID-funded projects that ACDI/VOCA implemented elsewhere. In Morocco, USAID was very supportive of F2F implementation having seen the direct impact of F2F on the beneficiaries.

F2F MENA OUTCOME & IMPACT SUMMARY

At the beginning of each F2F assignment we established baseline values and information of each host organization, monitoring the different types of assignments and volunteers recommendations, and evaluating host performance and progress in terms of adoption of practices and financial achievements. In addition to our monitoring system we prepared impact survey questionnaires tailored to capture the results that are unique to the type of impact the volunteer assistance was expected to make: Economic Impact or Organizational Development. The selection of one of the two impact areas is based on the objective of the volunteer assignment and the type of recommendations the volunteer provided to the host at the end of their visit. This information has been collected in the two core program countries, Egypt and Lebanon, along with the flexible country Jordan by the field staff through the final impact survey questionnaire conducted with each and every host that has participated in the program. The final impact survey questionnaire also includes a qualitative element to capture broader results of the F2F assistance.

EGYPT

In Egypt, due to the security situation over the summer 2013, we were unable to reach many beneficiaries to capture impact. Nevertheless, we interviewed 247 farmers, 233 horticulture farmers, and 14 dairy and livestock sector farmers. In addition to the final impact survey, we conducted 13 Focus Group Discussions (FGDs) conducted in five governorates with 82 beneficiaries. The FGD utilized the Most Significant Change approach with a sample of hosts across Egypt.

Because of the unrest in Egypt we conducted the impact survey with only 19 organizations in seven governorates and for the unreached hosts we created an online survey form, six organizations have filled out the form online.

https://docs.google.com/forms/d/11jS0IZfgZ7naPVfwHHG0L0Mf_e2n6ZrcXi4LlfX20Uc

While we have exceeded the impact targets for Egypt subsectors, the analysis of cumulative baseline to impact data demonstrates a decrease in both gross sales and net income, This is due to the fact that we were not able to survey all F2F hosts due to the political events in the summer of 2013. Nevertheless, highlights of major outcomes by subsector are included in the table below; the full outcome table is available in annex 1.

	Total beneficiaries	# of recommendations adopted	Increased sales	Increased income	# of new products /services	Increased membership
Horticulture	81, 259	141	\$1,458,991	\$574,382	26	8,027
Livestock/ Dairy	7,285	19	\$271,327	\$2,381,344	3	61
Flexible	2,162	10	0	(\$4,586)	0	600

Even with the limited number of hosts interviewed, the results reflect a significant impact reaching beneficiaries, as reflected in increased sales and revenue. In Egypt to expand the impact of volunteer assignments and recommendations we conducted a number of outreach activities, using our network of local organizations, institutions, on-going projects, and media channels. For example, in cooperation with the Arab Bee Keeping association the field visits and seminars of

three volunteer consultants, Warren Neyenhuis and Stephen Petersen are archived and uploaded on YouTube:

<http://www.youtube.com/watch?v=aheQKuwjAXc&feature=relmfu>
<http://www.youtube.com/watch?v=13BEwAiMpcU&feature=relmfu>

Garrett Dodds has videos on Delta local TV channel:

<http://www.youtube.com/watch?v=I9P1ssejrv0>
<http://www.youtube.com/watch?v=9tRGSxL5veY>

In addition, Dr. Jennifer Gillett-Kaufman from the University of Florida and Dr. Diao El-Ansary, from Alexandria University’s Precision Agriculture Laboratory (PAL) have an on-going collaboration to translate extension materials into Arabic, which are posted on the official website of The University of Florida’s Institute of Food and Agricultural Sciences (UF/IFAS), the following links illustrate this coloration through a complete article on the “Citrus Nematode”.

http://entnemdept.ufl.edu/creatures/nematode/citrus_nematodeMSA.htm
http://entnemdept.ufl.edu/creatures/CITRUS/Planococcus_citriMSA.htm

F2F Egypt also received media attention for its innovative collaboration with UPEHC, promoting the strawberry post-harvest techniques seminar that was conducted by Dr. Mohamed Abdel Rahman on El-Nour TV channel.

LEBANON

F2F Lebanon succeeded in increasing overall sales, net income for majority of host organizations. The increases are associated with the fact that while the recommendations adopted are at 43 percent based on the survey from how many were given, the actual implementation of recommendations is much higher. Also the implementation strategy of F2F activities in Lebanon through the nonprofit foundations and other organizations, who are essentially the only de-facto extension service providers in Lebanon, has spread the impact of F2F volunteer activities to a major success.

	Total beneficiaries	# of recommendations adopted	Increased sales	Increased income	# of new products/ services	Increased membership
Horticulture	21,171	242	\$23,310,366	\$1,191,600	26	28
Small Ruminants	25,202	117	\$8,409,900	\$720,000	0	370
Flexible	19,906	39	\$16,094,000	\$50,000	0	0

FLEXIBLE COUNTRIES (JORDAN, MOROCCO, TUNISIA, ETHIOPIA)

Quantitative data was not collected for flexible countries but Jordan. In Jordan, we have collected impact data on eight host organizations. In all cases, there has been positive impact. Several highlights for Jordan are Jordanian Dairy Co., Jordan River Foundation and Jordan Hashemite Development Fund who were able to adopt volunteers’ recommendations as reflected in their significant increase in sales and income.

Some notable successes include:

Jordan: the Women Business Development Incubator (WBDI) is a development project implemented by Noor Al-Hussein Foundation in corporation with the Italian Association for Women in Development and co-financed by the European Union. The WBDI aims at promoting Jordanian women's participation in the labor market through providing innovative business development services. The F2F volunteer, Ms. Nelson stayed in Irbid for three weeks to work with 16 women of the WBDI. She provided seven main recommendations on how to improve and re-design their different products, in addition to creating new products/product lines, such as table runners, bags, cushions and jewelry to respond to market needs—especially within the tourist market. Two of the new products the volunteer introduced; bags and table runners have experienced a 5 percent increase in sales, a significant impact that has generated a 5% increase in monthly income for the women as they started selling more of this new product. Moreover, Ms. Nelson provided different designs in a variety of colors that allow the women to spend less time on producing the table runners and bags, that costs them less (saving about JOD 5 per piece), while at the same time increases the value of the product. One month after Ms. Nelson's visit, the women of the WBDI have experienced an overall increase of their sales by nearly 15%.

Morocco: Al Khozama Cooperative of 60 lavender producers' members has a mission to develop the lavender production in underdeveloped Oulmès, Morocco through the elimination of intermediaries, the improvement of technical production, and quality control to reach out to larger market channels—both domestically and internationally. The cooperative benefited from US volunteer Victor Gonzalez from Washington state, the owner and president of Victor's Lavender, to assist the farmers-producers of Oulmès to overcome the multiple problems faced by the cooperative and by the farmers in lavender production and marketing. The volunteer expert, implemented two volunteer assignments with the cooperative believing Al Khozama can easily become the model project for the rest of Morocco's growers of lavender, should the recommendations provided by the F2F expert be implemented.

Today the Oulmès cooperative offers to local retail market high quality dried lavender at 100 MAD/kg, compared to 15 MAD/Kg in the previous years with 70% increase in profit. The selling price of essential oils also increased from 1,500 MAD/lt to 2,500 MAD/lt. The volunteer introduced lavender water that the farmers started selling to retail markets at 40 MAD/lt. The farmers' seasonal sales in the previous years did not exceed 60,000 MAD, today, although the quantity of lavender oil produced is less, due to the improved extraction methods, the farmers' annual sales have increased to 90,000 MAD.

F2F MENA SUBSECTOR SUMMARIES

EGYPT HORTICULTURE, LIVESTOCK/DAIRY AND FLEXIBLE SUBSECTORS SUMMARY

The Egypt Farmer-to-Farmer (F2F) project transferred knowledge, new technologies and techniques to increase efficiencies in the horticulture and livestock/dairy subsectors, focusing to improve the productivity, processing, and marketing to increase profit margins of smallholder farmers. In addition to these two focus subsectors F2F Egypt worked with other subsectors through flexible assignments to address targets of opportunity, these included assignments addressing Organizational Capacity Building, Beekeeping, Food Processing, and Aquaculture. To achieve its results F2F Egypt worked with many partners during its five-year implementation, including USAID funded project like the Global Development Alliance (GDA), a public-private

partnership between H.J. Heinz and ACDI/VOCA; and the Value Chain Training Program implemented by MUCIA, a teaching-learning program in Agricultural Technical Schools (ATSS). Along with trade associations like HEIA - Horticultural Export Improvement Association and smallholder farmer association “EI-SHAMS” project under Agriculture and Rural Incomes (AERI) program. The project also worked with entities such as the Union of Producers and Exporters of Horticultural Crops (UPEC) affiliated under the Ministry of Agriculture and Land Reclamation; The Grants Innovation Technology Transfer Center (GITTC) affiliated under Alexandria University; The Agricultural Technology Center (ATC), a specialized technology centers established by the Ministry of Trade and Industry (MTI).

ACDI/VOCA leveraged F2F interventions to increase impact of non-US donor programs, such as the West Noubaria Rural Development Project (WNRDP) funded by the International Fund for Agricultural Development "IFAD" and the Government of Egypt (GoE), Egypt Enterprise Development Project (EEDP) funded by the Canadian International Development Agency (CIDA), Idku Livelihood Development Initiative (ILDI) a public-private partnership between ACDI VOCA/ASI and Egypt British Gas, the Business Development Services Support Project (BDSSP) a project funded by the Canadian International Development Agency (CIDA), Agricultural Community Development Association” ACDA, The Arab Beekeepers Union, Fayoum Agro Organic Development Association (FAODA), Egyptian Milk Producers Association, etc.

F2F activities enhanced the competitiveness of the Egyptian horticulture subsector for export and agro processing through well-designed targeted F2F volunteer assignments. One of the main challenges facing the Egyptian horticultural subsector is improving product quality and food safety to meet international standards; assignments addressed quality and food safety through supply chain interventions in production, handling and export management practices and though assignments designed to optimize use of available export infrastructure and facilities. A second challenge is how to integrate smallholder farmers into the horticultural export value chains; to improve smallholder integration F2F Egypt utilized volunteer expertise to build smallholder farmer business and technical capacities so that they could meet world market requirements. F2F Egypt fielded 112 horticulture assignments, which supported a total of 6,046 beneficiaries, including 867 females, farmers, extension agents and researchers of 41 organizations in 15 Governorates. Volunteer assignments focused on direct technology transfer to agricultural enterprises and organizations to strengthen the agriculture value chain. All transferred technologies were market oriented in order to help farmers respond to market needs in terms of product quality and production timing and volume. Technologies included both environmentally sound production technologies to produce high-quality products and post-harvest technologies to maintain quality after harvest. The core technologies transferred to Egyptian horticulture farmers included:

Production technologies

- Greenhouse production, including design and construction, with special emphasis on greenhouse nurseries.
- Production technologies such as integrated crop management (ICM) and sustainable practices and systems with specific focus on fertigation, chemigation, integrated pest management (IPM), modern irrigation, water conservation, and proper soil management.

Post-harvest handling technologies

- Proper maturity indices based on market demand and target marketing channels.
- Harvest techniques, with emphasis on new systems such as field packaging.
- Fast cooling, pre-cooling, cold storage, and cold transport technologies.
- Post-harvest treatments.

The Livestock and Dairy subsector supported smallholders in increasing income generated from dairy activities by applying simple technologies that increase productivity and safety of the milk and dairy products. Technologies related to proper feeding, taking into consideration limited feed availability, and better vet and herd management technologies. Hands-on training and technology transfer maximized the benefits of private feed units and promoted the concept of private vet services among smallholders. Thirty-three livestock and dairy assignments were fielded, building the capacity of a total of 1,334 beneficiaries, including 356 females, farmers, extension agents and researchers of 27 organizations in 12 Governorates. Volunteer assignments focused on increasing milk production and meat yields through animal feed intake, feed conversion ratio, animal health care, animal welfare and disease awareness. Assignments also touched on summer green fodder cultivation, improved silage techniques, diversification of feed resources, improved quality of feed and increased use of improved crop residuals. Six assignments were on feasibility studies, dairy herd management, and cheese processing.

To address opportunities in all aspects of the agriculture sector ACDI/VOCA implemented flexible assignments providing volunteers to a number of strategic host organizations and farmers to support their access to new markets, increase marketing knowledge, improve their decision-making, and strengthen their negotiating skills. These flexible assignments supported farmer associations and their members in implementing managerial and financial systems, crop budgeting, production planning, profitability and simple business analysis techniques. F2F volunteers helped organized farmers to obtain Global-GAP, BRC, HACCP and organic production training and certification. Moreover F2F Egypt fielded assignments in new areas like beekeeping, aquaculture, handcraft marketing, food safety and security, and nutrition education, while building capacity in communication, strategic planning, financial management, monitoring and evaluation, and extension leadership. During LOP there were 38 flexible assignments fielded, which worked with 2,200 beneficiaries (643 females), including farmers, extension agents, researchers and processors of 19 organizations in nine Governorates.

As a result of effective coordination and collaboration with multiple partners F2F Egypt activities are highly promoted among other donor programs, farmer groups, NGOs, research institutes and universities.

LEBANON SUBSECTORS HORTICULTURE, SMALL RUMINATE LIVESTOCK AND FLEXIBLE SUBSECTOR SUMMARY

F2F Lebanon worked in two main sub-sectors, horticulture and small ruminant livestock, and utilized flexible assignments principally to address environment and business planning concerns. Upon the inception of Lebanon activities, the team began building its database of potential host organizations and beneficiaries through strategic communication and outreach activities. With the implementation of each assignment, the team sent an e-mail, with the volunteer's CV, scope of

work (SOW), and informed all host organizations of the assignments that would be implemented each month, asking all of them if they would be interested in meeting with the volunteer or joining them on a field visit. Host organizations started sharing the volunteer CV with other stakeholders, and ACDI/VOCA began receiving calls from many stakeholders in our principal subsectors along with other subsectors, to meet with the existing volunteers and request future assignments. This enabled the F2F team to network with interested stakeholders that we didn't have contacts with, thus reducing the need for overt outreach activities, and allowing us to concentrate on preparing quality and strategic assignments and provide direct support and follow-up to volunteers and hosts during assignment implementation.

F2F beneficiaries included a wide spectrum of stakeholders, including informal farmer groups, cooperatives, associations, foundations; universities, Chambers of Commerce, municipalities, forest reserves, private companies, and USAID funded program beneficiaries.

F2F worked with a number of informal farmer groups in several regions, for example two groups were trained on mushroom production, and as a result invested their limited resources and now are producing mushrooms and have improved their incomes. Other informal farmer groups were assisted by volunteer experts on dairy nutrition and farm management, and as a result, they have changed the whole concept of nutrition, and started feeding better rations to their animals, saving more money on feeding costs and producing more milk, and improving their income.

F2F volunteers also worked with cooperatives and associations in several rural areas, on cultural practices and introducing new techniques of pruning for stone fruit that enable the trees to be more vigorous and produce more marketable fruits. Other volunteer interventions were for dairy and forage production cooperatives, and as a result, those cooperatives started providing the market with better quality forage, and volunteer training and technical assistance had enabled these cooperative farmers to feed their animals better, and generate more income, reducing the costs of feed and increasing the dairy farm products.

Several host organizations benefited from F2F volunteers in forage production, adopting better forage production and harvesting practices, which has enabled them to supply the market with higher quality forage improving their business position while improving dairy farmer yields. Volunteer experts, of all the sectors most dramatically affected the forage and livestock sector. Working with well-established foundations, enabled the F2F volunteers interventions to impact more farmers beneficiaries, the foundations are working in all the regions and in many agriculture sectors, and have many beneficiaries. F2F activities with those foundations were related to the production of citrus, bananas, olive, floriculture, greenhouses, honey, crop fertilization, and apples and cherries post harvesting, storage and pruning. Other foundations beneficiaries were trained by F2F volunteers on dairy and livestock nutrition and farm management.

F2F worked with the top four universities in Lebanon; American University of Beirut (AUB), Saint Joseph University (USJ), Lebanese University (LU), and the Holy Spirit University (USEK). With AUB F2F volunteers conducted workshops and trained students and technicians on mushroom spawn production and fresh produce packaging. Volunteers worked with USEK students on mushroom spawn production and animal nutrition and veterinary science. The LU

six year veterinary program was reviewed by F2F volunteer academician making needed design and curriculum improvements, while at USJ a volunteer lectured on dairy nutrition providing the next generation new and updated ideas and techniques.

F2F volunteers worked with municipal forest reserves; Tanourine Forest Reserve and Horsh Ehden Forest reserve, and Al Shouf Forest Reserve that includes around 15 municipalities. These reserves include the only cedar forests in Lebanon. F2F volunteers worked with these reserves on forest management, forest diseases, forest fire fighting, and eco-tourism business planning. These assignments benefited the communities near the reserves, increasing tourism, while providing clear strategies to mitigate and manage the populations moving into the buffer zones around the forests.

F2F Lebanon worked with several private companies which are very influential in the targeted subsectors. The most important of these was Libanvet, a very prestigious veterinary practice that operates throughout the country, providing veterinary services to hundreds of cattle farms. Libanvet is the leading disseminator of farm management and veterinary knowledge throughout the country. Multiple volunteer assignments were conducted with or through Libanvet, working with company clients and Libanvet staff on animal feeding and farm management, and training Libanvet veterinarians on new surgical techniques, that have helped to save many animals thus positively impacting farmers' incomes. Other private sector companies which were supported by F2F Lebanon include Biomass, A New Earth, and Health Basket which work in marketing organic products. F2F volunteers provide advice and guidance on business planning, marketing, and worked with member organic farmers on crop management.

Three USAID funded programs benefited from F2F interventions, Quality Control Certification (QCC), Lebanese Business Linkage Initiative (LBLI) and American Near East Refugee Aid (ANERA). For QCC a number of F2F volunteers specialized in food safety and lab analysis worked with the QCC beneficiaries, and provided them with new testing protocols and trained them on quality standards. F2F volunteers worked with LBLI beneficiaries on Global GAP standards and as a result more than ten farmers received Global Gap Certification, another volunteer worked on the eco-tourism component for LBLI, and as a result Beyond Beirut Cooperative was initiated, which designs and organizes tourist trips to visit rural areas outside Beirut. Two F2F assignments were implemented with ANERA, one related to water management and orchard irrigation in the semi-arid and mountainous regions of Lebanon, and the other promoted and shared cost effective and appropriate technology techniques of rooftop gardening in Palestinian refugee camps; as a result many refugees started planting vegetables on their rooftops and balconies for household consumption.

During F2F Lebanon implementation, a number of volunteers repeated visits to the country and at time to the same host. We found that the volunteer with the cultural context, country and sector experience were more productive and efficient with their time, as they knew the constraints and the best way to convey them to help ensure adoption, whereas non-repeat volunteer often had a much more steep learning curve. With each visit the volunteer continued pressing forward with the recommendations they started, and fine-tuned the beneficiary implementation. During the five years F2F Lebanon implementation, repeat volunteers were able to witness the progress and adoption of new technologies they and other F2F volunteers

introduced, and observe how adoption of new techniques by the farmers changed their lives and improved their incomes, providing good fodder for impactful success stories.

FLEXIBLE COUNTRIES – ADDRESSING TARGETS OF OPPORTUNITY

The bulk of flexible country assignments took place in Jordan, with 46, followed by Morocco with 16, then Tunisia with two and Ethiopia, Kyrgyzstan, Colombia and India with one. Even though Jordan was not an official core country it was the only flexible country where ACDI/VOCA had an office which facilitated the identification and implementation of flexible assignments. As such there is more information on Jordan than other flexible countries.

F2F Jordan established livestock and horticulture as its principal subsectors, though continued to field large numbers of flexible assignments addressing agriculture sector opportunities as they arose. The F2F Jordan objectives were to advise and work with farmer groups, cooperatives, private sector companies, governmental institutions and NGOs on technology transfer, quality control, monitoring and evaluation, marketing, business strategies, packaging and labeling, among other agribusinesses issues.

The F2F Jordan team initiated the program with extensive outreach to introduce potential beneficiary hosts to ACDI/VOCA and the F2F program, explaining how they could benefit from volunteers' through direct training or the building of cooperatives or other organizations capacity to adopt new technologies aimed at improving the productivity and quality of smallholder farmer products. F2F Jordan exceeded its work plan targets in terms of the number of fielded volunteers, with a total of 46 volunteers serving 15 different organizations, with 2,295 (606 women) direct beneficiaries.

Twelve assignments were completed in livestock with seven host organizations, these included: sheep nutrition; forage production; new livestock surgery techniques; reproductive efficiency assessment of male sheep and goats; and antibiotic resistance in sheep and goats in the Jordan Badia. There exists need for additional livestock nutrition, and veterinarian services. In the horticulture sector, we completed seven assignments with three host organizations which addressed fertigation management; Oyster mushroom production; post-harvest handling; Jordan herbs, medicinal plants and essential oils; perma-culture; and honey and bee product, packaging and labeling. Under flexible assignments we implemented 26 assignments that introduced or strengthened concepts in the country, such as monitoring and evaluation; eco-system services; rural youth development; the use of solar energy; fundraising; education and interpretation; library planning and improvement; marketing strategies; and food security.

F2F Jordan conducted assignments related to biodiversity conservation with a whole or integrated systems emphasis. The program worked with the Royal Botanic Garden (RBG) of Jordan, and provided volunteers which supported habitat based conservation (considering all biogeographic conditions). F2F Jordan worked on three main components with the RBG: science and conservation; education and community development; and sustainable living. In addition to providing technical assistance to the host organizations, F2F Jordan organized an "Assessment of Eco-System Services" workshop with representatives of 26 local and international NGO's. This workshop addressed three major objectives: 1) how to enhance the understanding of eco-system

services; 2) how to engage stakeholders to impact decisions related to eco-system services; and 3) eco-system assessment, methods and tools.

F2F Jordan focused on assisting and empowering women groups. The program worked with a women's group from Princess Basma Development Centre, a Jordan Hashemite Fund for Human Development (JOHUD) community center located in Aqaba. Through volunteer assistance women received training on how to produce (handicrafts, embroidery, and knitting) and market their products and to understand who their primary customers are. In addition, women groups in Irbid through Noor Al Hussein Foundation (NHF) were assisted by volunteers on how to improve and re-design their products and create new product lines (such as table runners, bags cushions and jewelry) and improve packaging to more effectively market them to expatriates and tourists throughout Jordan, as a result these groups increased their sales from 1% to 5%, generating more income for these women. These groups changed their way of thinking and began to focus on market demand rather than making products and then finding a buyer. They also started participating in many events, souqs and exhibitions to present and sell their products to new market. These groups have served as important examples for other women's groups in Jordan.

In Morocco we predominately focused on assisting cooperatives and associations, including women-associations building their capacity to produce more efficiently and with a better marketing strategy alternative income generating products such as herbs, lavender, handicrafts, etc. This strategy supported the host government's priorities as well as US government priorities, as demonstrated by our meetings with the USAID Mission in Morocco.

After the Arab Awakening which began in Tunisia, several requests and opportunities emerged to provide two volunteers supporting agricultural growth in poorer south Tunisia.

Other non-core assignments included 1) Ethiopia, where we provided a volunteer addressing and opportunity and fulfilling a request from USAID; 2) India, Kyrgyzstan and Colombia, where we fulfilled requests from USAID-funded, ACDI/VOCA implemented projects to address organizational development of emerging associations.

LESSONS LEARNED

- Host selection criterion based on the organizations or companies ties to local communities, its size and national coverage can multiply volunteer assistance impact. For example, in Jordan the Halawani Industrial Company (HIC), a private and family owned business that produces potato chips, halva and tahini products for sell in Jordan and neighboring countries, created job opportunities for locals as a result of volunteer marketing, product development, processing efficiency training. The company's local employee's increased from 350 to 700.
- To manage security concerns and to make sure volunteers feel safe it is important 1) to send the volunteer an e-mail detailing the security protocols and measures that are taken during their visit and emphasize that the volunteer needs to follow them; 2) to make sure they are greeted at the airport by an ACDI/VOCA representative and taken to their hotel; and 3) while volunteers are in-country to maintain contact with them on daily basis.

- Sending monthly F2F updates to USAID, USAID funded projects, NGOs, stakeholders, and project beneficiaries helps create good communication and allows for the participation, sharing and leveraging of expertise and resources. The updates should include upcoming F2F assignments, workshops and activities, with the names of the volunteers, their bio and on some occasions their CV. The updates were often shared by USAID, NGOs, and program beneficiaries with their clients, other beneficiaries, and interested stakeholders, who allowed the specific volunteer recommendations to be shared more broadly expanding program impact, while increasing our pool of potential hosts. The outcome of these monthly updates is that we are 1) able to reach new beneficiaries with limited team effort; 2) volunteers meet sector stakeholders other than the direct host organization which provides greater sector context and opportunities for future assignments; 3) agriculture stakeholders in the different value chains are aware of the activities of F2F taking place in the country in each month; and 4) F2F becomes a technical reference in agriculture at the national level.
- Volunteer experts conducting initial sector assessments at the beginning of the program and identifying sector constraints and developing an intervention plan and providing follow-up assignments addressing those constraints can be very affective at increasing adoption levels and ensuring major sector change. Follow-up assignments by repeat volunteers or recommended volunteers by previous star volunteers are the most affective at addressing identified sector constraints. Volunteer expert repeat visits save on assignment time, as the expert already have a understanding of the sector and are able to follow up on the recommendations and work on the other constraints, and in different regions and with other beneficiaries. Volunteer experts with a clear understanding of the sector issues and constraints maintained a continuous relation with beneficiaries, and refer to the experts for any technical question. Star volunteer expert: *“I have seen a tremendous increase in understanding of principles as a result of the five F2F assignments that I have made to Lebanon. Minds have been changed and nutrition and feeding of dairy cows has been improved as a result. I am so pleased to have been able to have the opportunity to observe the transformation taking place in Lebanon during the short span of years. My work has been very well received and it has been a pleasure to maintain contact with many producers on repeat visits and to assist them with new challenges as they adopt new technologies and feeding practices. Due to the size of the country it is not unlike much of my work in a three or four county region in the U.S.”*
- Security was one of the major challenges in implementing F2F programs in Lebanon. New volunteer experts were reluctant to visit Lebanon, due to their and their families’ concerns. However, volunteer experts that implemented assignments in Lebanon were very pleased with the experience, and indicated that they were interested in returning. While recruiting volunteers for Lebanon and other countries with security concerns the F2F recruiter should link the potential volunteer with other volunteers that have visited the country in question to share their experience, answer questions and resolve any concerns.
- Scope of Work development and assignment planning should be built off a foundation of data collection and information. Host needs assessments to determine host demographics, experience, absorptive capacity, training and technical assistance needs, motivations, and skill levels are helpful in providing insight into the type and method of training and technical

assistance that would most benefit the host.

- We identified several actions to close the gender gap in the participation and benefits to women from F2F assignments: 1) seek out women's associations & businesses for participation, these may be processing enterprises, women's business associations, and farmers groups; 2) ensure training activities incorporate women and are designed to strengthen women's capacities and capabilities; 3) take a whole family approach so that women and youth family members are incorporated into producer and other training activities, including leadership training; 4) promote gender awareness and sensitization with host organizations, including highlighting gender in agendas, policies, strategies and action plans; 5) provide gender training to F2F staff and the staff of country partners; 6) use gender as a criterion for host selection.

SUCCESS STORIES

EGYPT: ACDI/VOCA VOLUNTEER MAKES VALUABLE RECOMMENDATIONS FOR ONION GROWERS

In Egypt, the F2F volunteer consultants assisted onion growers to produce high quality onions and increase their productivity utilizing simple, accessible and low cost technologies. F2F was designed to integrate with the USAID-funded (Four Thousand Tons per Day -GDA) project targeting smallholder farmers and aiming at helping them to become reliable and profitable suppliers for both local processors and export markets. F2F mainly recruited crop production specialists to provide technical assistance in alternate crops following tomatoes.

In November 2010 and again in January 2011, F2F Egypt fielded Dr. Mohamed Abdel Rahman from North Carolina on two separate onion production assignments. During the second assignment, the VC followed-up on the application status of best onion production practices recommended during his first assignment. Dr. Abdel Rahman is an Egyptian American professor who never hesitates to help Egyptian farmers as a volunteer when they request his assistance.

"I need to feel that I am still an Egyptian citizen" said Dr. Abdel Rahman. He also added "I happen to live abroad but I am still part of this community and I am always more than happy to recommend technologies that enhance the overall socioeconomic development of Egypt".



Onion growers during the harvest in Aswan governorate.

During his first assignment, the VC observed that the early blooming and fungal infections among the onion crops were the major problems negatively affecting the productivity and profitability of onion growers in Aswan governorate, Upper Egypt. He observed that the reason for early blooming was due to the fact that farmers were transplanting the onion seedlings after 55 days. After reviewing this practice, the VC recommended transplanting the onions after 50 days to prevent the early blooming of onion plants. The VC also established an efficient preventative program for fungal diseases. The farmers applied his recommendations regarding the seedling period and followed the fungal diseases program. During the two assignments, the volunteer directly benefited 190 farmers, two of whom were women.

Ahmed Hamdi is a farmer living at AlAmal village (Wadi Al-Nokra, Aswan governorate in Upper Egypt). Ahmed grows wheat, sesame, fava beans, peanuts, sorn and melons on his farm. Ahmed fully applied the VC's recommendations for 50-day transplanting and followed the preventive program, which prevented early blooming and eliminated fungal diseases. As a result, the average production/feddans increased from 15 – 20 tons. Ahmed was able to increase the productivity of the two feddans by 10 tons. The price/ton during the last season was LE 450.

EGYPT: VOLUNTEER HELPS SPREAD KNOWLEDGE OF INTEGRATED PEST MANAGEMENT FOR EGYPTIAN CITRUS GROWERS

F2F Egypt fielded Dr. Jennifer Gillett-Kaufman, an Assistant Extension Scientist from the University of Florida, to work with the Egyptian Union of Producers and Exporters of Horticultural Crops (UPEHC) from April 19 to May 3, 2013. UPEHC is the biggest union in the field of agriculture in Egypt. It was established in 1971 under a special law endorsed by the Egyptian parliament and presidency to boost Egypt's horticultural production in quality and quantity. The assignment's main objective was to recommend integrated pest management (IPM) practices in the areas of nematodes control, organic fertilization amendment, weed control and biological control.

During the briefing session between Dr. Gillett-Kaufman and the F2F and UPHEC team, they reviewed the Egyptian citrus industry as well as the role of UPHEC to support the farmers with updated information. During this meeting, a new purpose of the assignment emerged—to provide the farmers, farmers' organizations, and extension agents with accessibility to scientific information such as pests control, IPM and pesticides application and handling. The volunteer not only helped gather and assemble this information, she also encouraged farm owners and managers to see guidance from Egyptian and international sources of information. By providing this guidance UPHEC can provide a stronger support network for large and small farms. The success of this guide will facilitate additional guides for citrus and potentially branch into other areas of agriculture supported by UPHEC. As a result of her assignment, she has visited 4 large farms and 2 small farms and all of them are UPEHC members and 64 directly benefited, 2 of whom were women.

F2F Egypt teamed Dr. Gillett-Kaufman with Dr. Dina El-Ansary, from Alexandria University a Precision Agriculture Laboratory (PAL), as a seminar interpreter. After the seminar Dr. Dina proposed a collaborative project to translate extension materials into Arabic on the official website of The University of Florida's Institute of Food and Agricultural Sciences (UF/IFAS). Since her assignment, Dr. Gillett-Kaufman has been collaborating with Dr. Dina collaborates and translated a complete article on the "Citrus Nematode" the article is posted under the UF/IFAS Entomology and Nematology Department. The site can be easily searched by browsing Citrus Nematode in Arabic in Google.

http://entnemdept.ufl.edu/creatures/nematode/citrus_nematodeMSA.htm



Figure 1: An article translated into Arabic on the university of Florida IFAS website.



Figure 2: ACIDI/VOCA and F2F logos at the bottom of the translated article.

Additionally, Dr. Diaa has been promoting the site for the citrus farms and has also discussed the site with his students in the fruit department at the university. Dr. Diaa stated that the project in cooperation with the volunteer will start soon and that Dr. Gillett-Kaufman will contribute many critical articles, which will in turn be translated and posted on the site to be made available in both English and Arabic. This site will serve as a repository of information for citrus growers and will spread best practices on pest control, IPM, and pesticide application and handling.

EGYPT: F2F SUPPORTS USAID-FUNDED PROJECT TO HELP CREATE NEW JOBS

F2F Egypt provided the technical input into the Agribusiness Linkages Global Development Alliance project (GDA) by fielding volunteer consultants to provide farmers with new agro-techniques, transferring knowledge and building the farmers associations' capacity. The GDA project supported farmers cultivating tomatoes in Aswan from 2009 through June 2013.

Alselsela is an agricultural village in Kom Ombo-Aswan, the village is located 40 km Northeast of Aswan. The activities in this region were done through El Mostakbal association.

In December 2011, F2F fielded an assignment in noxious weed control. Mr. Sudeep Abraham Mathew, an extensionist from the University of Maryland was selected as the expert volunteer, who spent one week in Noubaria and three days visiting the association's farmers in Aswan governorate. The volunteer taught the farmers best practices in weed management, farmer protection and pesticide application safety, pesticides storage and disposal, and pesticide handling.

In October 2012, El Mostakbal requested a volunteer consultant to implement an assignment in seedling production in greenhouses. In an effort to assist the association, volunteer Matilde Durzo, a plant stress physiologist from Purdue University-Indiana, was fielded. Based on the farmers training needs addressed by the volunteer in fertilization and pesticides handling, the volunteer returned in January 2013 for a follow-up assignment in greenhouse technology.



Kom Ombo-Aswan Farmers attend a volunteer demonstration.

Mr. Sayed Ahmed Mohamed is a board member in El Mostakbal association-Alselsela village, who owns a two acre farm cultivating tomatoes as a part of the GDA program. On his farm, he also produces clover, wheat, corn and sugar cane. Mr. Sayed has attended the three training sessions conducted by the two volunteers who worked with the El Mostakbal association; Mr. Sudeep Mathew and Ms. Matilde Durzo.

“I have learned a lot from the two volunteers and their recommendations helped me to increase my income” said Mr. Sayed, Mr. Sudeep taught us how to control tomato weeds by using herbicides” “Mr. Sudeep advised the association to provide the spraying service to farmers in the village. I got the idea and applied the information I got from Mr. Sudeep and started a small project.”

Volunteer Matilde Durzo discussed with the farmers the effect of the high PH level in the spraying water, as it decreases the effect of the pesticides. Furthermore, she taught the farmers how to adjust the PH levels as well.

After working with the volunteer, Mr. Sayed mentioned “I have used the PH meter to test the PH level of the water we use from the irrigation canals and I found that the PH is 9.5 while the perfect PH for pesticides is 6-6.5” As a result, he now adds Nitric acid to adjust the PH level, as learned from the volunteer expert.

Through the GDA, USAID granted the Almostaqbal association with a greenhouse equipped with all of the necessary instruments, such as the PH meter that has been used to adjust the water PH. By adjusting the pesticides PH, Mr. Sayed mentioned that he found that the tomatoes need only five to six sprays for the entire season, an amount much less than in previous seasons when the farmers performed 12 sprays per year. With the correct PH levels, the pesticides have become more effective and have this new application has ultimately saved farmers 3,000 LE per acre during the tomato season alone. Since working with the volunteer, Mr. Sayed has bought a manual sprayer and started offering spraying as a service to the farmers, with the adjusted PH level.

Mr. Sayed mentioned that now his business is going well and he has bought another automatic sprayer. He is now providing the spraying service to 150 acres per year and this generates 40 LE per acre every year. As a result of learning this new technique from the volunteer, he is now able to positively impact nearly 150 farmers each year by providing this good quality service for them in good quality. He noted that he has “decreases [the farmer’s] pesticides and herbicides costs year per year.”

EGYPT: ACDI/VOCA VOLUNTEER STRENGTHENS BUSINESSES FOR SESAME GROWERS

In Egypt, ACDI/VOCA Farmer-to-Farmer volunteer consultants helped small farmers to increase their productivity and profitability utilizing simple, accessible and low cost technologies. Integration and collaboration with the USAID-funded Four Thousand Tons per Day (GDA) project enhanced smallholder farmers to become reliable and profitable suppliers for both local processors and export markets.

Upon request from sesame small growers working with the GDA project in Aswan, Upper Egypt, F2F fielded Mr. Martin Mason from California to help them establish an efficient production system, as the farmers were suffering from low crop productivity per feddan that did not exceed 250 kilograms per farmers per season.

In August 2010, Martin visited several sesame farms in the Aswan governorate in south Egypt to observe the problems negatively affecting their production such as unfertile and poor soil as well as a general lack of information and experience in growing sesame. Martin met with many members of El-Hekma and Alamal associations who grow sesame as an alternative crop following tomatoes. The VC noticed that growing sesame by sowing, instead of planting on rows; in addition to a lack of fertilizers limited the productivity of the sesame farms. The VC recommended the farmers to grow on rows and apply minor elements at certain production stages. During his assignment, the volunteer trained 180 farmers.



A farmer holding sesame seeds in his hand.

By following the volunteer's recommendations such as planting early to avoid pod set stage during the hottest days and insect and diseases vector by insects, and planting on beds using improved technology, the two associations, which operate in neighboring villages, noticed that their yields increased from 250 kilograms per feddan to 450 kilograms. This increase in production has motivated the two associations to enter into a forward contract to supply their sesame to one of the biggest in Egypt—Halawa Tehinia (Sesame Sweets). The company (Alrashidi Elmizan) offered the farmers premium prices for their quality product. The sesame farmers received LE 900 for each Ardab (120 kilograms) instead of LE 500 at the local market. 300 growers farming 800 feddans have participated and benefited from the marketing contract, in which the two associations have agreed to market the farmers' products.

The impact of this assignment can be summarized as follows:

Productivity increase/feddan = 200 x LE 6.66 = LE 332 (\$48/feddan)

Total increase in sales/season = 300 feddans x LE 332 = LE 99,600 = US\$ 14228

EGYPT: IF YOU CAN'T MEASURE IT, YOU CAN'T MANAGE IT/SMALL FARMERS IN BUSINESS

Egypt F2F maximized its impact, outreached large numbers of beneficiaries and impacted beneficiaries of other projects through collaboration and integration with USIAD and other donor funded programs such as the West Noubaria Rural Development Program (WNRDP). WNRDP is a comprehensive development program targeting all the inhabitants of West Noubaria region.

Upon request from the WNRDP, F2F recruited Wayne Thompson, from Houston, Texas, as a volunteer consultant to assist Noubaria smallholders' farmers in establishing efficient techniques to estimate their potential crop production in September 2011. During this assignment, the volunteer consultant (VC) visited several citrus orchards to demonstrate and train the farmers on how to assess the potential crop of citrus trees. The VC applied very simple techniques such as using a rope to estimate the average potential crop of one some trees. The expected productivity of the entire orchard is then estimated by multiplying the number of trees in the orchard times the average expected production of each tree. The VC conducted a seminar to discuss his findings and recommendations with the farmers, key specialist and local extension agents.

The VC visited Ahmed Meshref's citrus orchard. Ahmed Meshref is a citrus and vegetable grower who lives at Tiba village, in the Noubaria district located in northwest Egypt. Ahmed owns a 5 feddans farm. Ahmed also attended the seminar conducted by the VC. Ahmed is 49 years old and has two sons who help him manage the farm with him.

Ahmed used to sell his crop as Kelala before. Kelala in Arabic means that the dealer offers to purchase the entire crop for a certain lump sum based on his [the dealer's] own estimation. Last year, the dealer estimated Ahmed's crop as 20 tons. This year, the same dealer's estimation for Ahmed's crop was 25 tons. Based on what Ahmed learned from the VC, his estimate was 50 tons. Ahmed refused the dealer's offer and the dealer insisted on his estimation and left Ahmed. Ahmed's neighbors advised him to sell his crop to the dealer but Ahmed insisted that the offered price is not fair. The pleasant surprise was that the dealer came back to him two days later and offered to pay for 45 tons. The price difference was LE 20,000 (approximately US\$ 2,857). Ahmed, as well as the three farmers who received training from the volunteer, now know how to properly estimate the production of their crops and will no longer be taken advantage of by the dealers. Not only are the farmers receiving fairer prices each season, they also have the confidence necessary and the knowledge to properly manage their farms.

“Receiving technical assistance from an American volunteer consultant was my first experience and it was most successful” - Saied Ahmed Meshref. He added that this experience was a life changing experience.

The impact of the F2F assignment can be summarized as follows :

The difference between the farmer's estimation and the dealer's estimation was 20 tons x LE 1,000 = L.E. 20,000 = US\$ 2,857/year.

The increased profits can allow an Egyptian to purchase almost 770 pounds of meat

LEBANON: ACDI/VOCA F2F VOLUNTEER HELPS TRANSFORM THE FORAGE SECTOR

Forage corn for silage was introduced to Lebanon in 2000 when 50 hectares were funded and grown under a USAID-sponsored forage project. By the year 2008, production of corn silage was being grown on 4,000 hectares of land. Four companies had emerged and they planted, managed, harvested and stored nearly all of the corn for silage. Much of the corn was grown on small plots of land where landowners could not afford to own the machinery and equipment necessary to produce corn for silage. Furthermore, in Lebanon, farmers have trouble feeding their cows. Nearly 95 percent of farmers feed concentrate to their cows, with chopped straw. This diet, however, causes many problems for cows, including with fertility, digestion, and production.

When Dr. Archie Devore, a F2F volunteer consultant from Nebraska, made his first visit to Lebanon in early August, 2009 he observed that the growers tended to harvest the corn for silage before it was mature enough to ferment well and make good quality silage. Livestock producers were complaining about silages with too much moisture content, excessive juices running out of horizontal bunker silos and foul smelling silage that sometimes caused off-flavors in milk.

At the time of Devore's first assignment in Lebanon the corn was nearing time for harvest. He made countless field evaluations along with two main host organizations La Libanaise and Coop Livestock Husbandry- Forage production & Agro Processing in Akkar m.m as well as with producers to check on maturity of corn to determine if it was nearing time for harvest. The volunteer stressed the need to harvest corn at the proper stage of maturity so that the dry matter content of the whole plant would allow for rapid fermentation of the starch in the grain, and thus produce silage with desirable nutrient content and optimum levels of milk production.

Mr. Devore taught the hosts to determine dry matter content (desired for good silage 30 to 38% dry matter) using microwave ovens and digital scales for quick measurements. He also was able to associate stage of maturity of the corn grain with dry matter content of the whole plant. By delaying harvest until the plants had reached at least 30 percent dry matter, yields of corn silage were increased as well. Quality of silage was improved as a result of having acceptable dry matter content, seepage of liquids from compressed silage was greatly reduced, and no longer ran into surface water sources. Improved palatability of the silage allowed for greater intakes by dairy cows and improved milk production.

Majed haj Hassan, nutrition department specialist at Liban lait dairy farm (the largest dairy farm in Lebanon), observed more than 10,000 tonnes of corn silage used to feed the 2,000+ dairy animals purchased from the host organization Coop Livestock Husbandry-Forage Production & Agro Processing in Akkar contained higher dry matter content starting in 2009 following Devore's assignment. Liban lait Dairy has continued to purchase more than 10,000 tonnes of corn silage annually from this F2F host organization, and is pleased with the improved quality.

Mounir Khamis, General Manager, AIDCO (Agriculture & Industrial Development Company) in the Bekaa region of Lebanon and one of the four companies that produce and market forages in Lebanon introduced triticale, a cereal grain, to be grown with hairy vetch for silage production in early spring to help fill the needs for summer forages as a result of the volunteer's recommendations. Triticale is more productive than winter wheat and matures later in the spring

allowing it to be harvested when hairy vetch is at its peak of yield and quality. The combination of triticale and hairy vetch produces higher yields of both energy and protein compared to that of winter wheat and hairy vetch that had been used prior to recommendations by Devore.

To increase quality of their produced feed, the volunteer introduced AIDCO to TMR (Total Mixed Rations), where forages and concentrates are blended to supply a total feed for dairy producers, as a concept for the first time. TMR is a complete ration for cows, which ultimately results in better health, production, and fertility. Mr. Devore provided the organization with the proper TMR formulas and gave training and instructions on how to produce it. Mr. Khamir stated that “before Archie, the idea [of TMR] was only an idea. We didn’t know where to start or how to start.” Now after working with the volunteer, AIDCO has invested hundreds of thousands of dollars in new equipment to produce and package. Mr. Khamis spent several months developing and learning about this concept working with Devore and was able to break into the market in December, 2012 by providing TMR packaged in 200 kg bales to Georges Abou Dib dairy farm. With the help of the Farmer-to-Farmer volunteer, AIDCO now has capacity to produce TMR in 45, 200, 400 and 800 kg packages to meet the needs of herds with as few as 10 cows or less up to herds with more than 200 cows and has emerged as the true pioneer of TMR in Lebanon.



Archie Devore evaluates the total mixed ration (TMR).

Acceptance of TMR has grown rapidly as dairy farmers demand more of this “Magic Feed” because it allows for higher yields of milk production with fewer herd health issues. Mr. Khamir reflected “Dr. Archie was excellent.” He noted that chopped straw, which was previously used in their feed, and is no longer contained in their TMR feed mixture, is extremely expensive: “with the less expensive feed, production has gone up.”

This means that with the new feed introduced by the volunteer, not only has production gone up, not only are cows healthier and more fertile, but the cost of production itself has gone down.

According to AIDCO’s General Manager, the price per ton of TMR for milking cows is \$370, while the price per ton of chopped straw and concentrate are \$430 and \$460 respectively. Mr. Khamis further explained that an average cow’s production with concentrate and chopped straw as their primary diet is 18 liters in 10 days, now the cows on the TMR diet, are producing 28 liters in 10 days. He attributes this success to the knowledge and expertise shared by Archie Devore and other F2F volunteers that worked with the company, stating “all of these changes, to be frank, are as a result of the Farmer-to-Farmer project and their volunteers.”

During his six assignments in Lebanon, Dr. Archie Devore worked with 10 different host organizations. His worked directly affected more than 198 people, 15 of whom were women.

LEBANON: F2F VOLUNTEER HELPS TRANSFORM THE LEADING VETERINARY PRACTICE

Dairy farming is a very important economic activity in both the United States and in Lebanon. Cows in both countries share the same health problems, so both countries have a lot that they can learn from each other. American veterinary schools have extensive research programs to develop new techniques to treat diseases of cattle, so the mission of Walter Hylton's Farmer-to-Farmer assignments with ACDI/VOCA has been to bring these new procedures to Lebanese veterinarians and farm managers. Volunteer Walter Hylton worked with host organization LibanVet for five assignments since June 2010. LibanVet, headed by Dr. Jamal Khaza'al, is a very prestigious practice that operates throughout the country. The practice provides veterinary services to hundreds of farms that contain thousands of cattle. Furthermore, LibanVet leads the way in disseminating veterinary knowledge throughout the country.

LibanVet personnel are able to save many valuable cows every single day that would otherwise be lost to the farmers. The economic loss would be severe because each cow is worth about \$2,500. The loss of a few cows would put many farms out of business. In addition, proper veterinary care and advice help keep cows healthy so that they can produce more milk and ultimately make more money for the farmer and his family.

In dairy farming, the most common surgical operation is to correct a displaced abomasum (fourth stomach in a cow). Before receiving Farmer-to-Farmer assistance, the practice by which the LibanVet group was managing displaced abomasum involved laying the cow on her back and tying her down. With the help of volunteer Walter Hylton, the LibanVet group



Volunteer Walter Hylton training LibanVet president Dr. Jamal Khaza'al and other veterinarians in the field.

now performs this surgery with a superior method. The volunteer introduced a new procedure, right pyloromentopexy, which has consequently allowed LibanVet to save hundreds of affected cows every year. Because the new method does not entail involve laying the cow on her back and tying her down, it therefore safer, faster and less stressful for both the cow and the veterinarian. LibanVet is now using the anesthesia method (paravertebral nerve block) for this surgery and all other abdominal surgeries due to the training and recommendations of the volunteer. In addition, the new procedure has improved the accuracy of the diagnosis of abomasal displacement, because before, with the cow on her back, it was impossible to verify that the diagnosis was correct.

Also during his work with the practice, volunteer Walter Hylton donated Barnes dehorning instruments and demonstrated its use. With these new instruments and with the knowledge on how to use them, LibanVet is now using a new method of removing the horns from calves. This new technique stops all bleeding and is faster, safer and leaves the animal looking and feeling

much better. Additionally for the the dehorning process, the volunteer introduced an anesthesia method of blocking the corneal nerve, which has been accepted entirely by LibanVet. Other recommendations that were made by the volunteer that were completely accepted by the host organization included: the volunteer's surgical techniques for repair of umbilical hernia, cecal torsion, vaginal prolapse, castration, bladder/urethral stones, intestinal blockage and uterine prolapse. Although these procedures as not as common as abomasal displacement, their effective implementation greatly increase the veterinarian's ability to save the lives of animals that would otherwise would be lost.

Hoof problems that cause lameness are very common on dairy farms. Most farms have a few active cases at all times. This can result in lost income due to treatment cost, decreased milk production, delayed breeding and, in severe cases, loss of the cow. In an effort to mitigate some of these issues, the volunteer brought an illustrated foot care manual to Libanvet for their foot trimmer, Hassan Younis, to study. Additionally, he brought superior hoof knives and chipper blades for an angle grinder and instructed them on how using them greatly improved the speed, safety and outcome of foot trimming. He also demonstrated how to treat many different foot infections. All of these techniques are now being used routinely by Hassan and other herdsmen.

One of the most important problems facing dairy farms is getting cows pregnant. The volunteer worked with the veterinarians of LibanVet to correctly diagnose the cause of infertility, using a holistic approach is necessary. Based on the volunteer's instructions and training, Libanvet staff are now integrating the history of the cow, e.g, calving date and heat interval, with the physical examination of the reproductive tract. This ability to improve fertility translates into more milk for less feed as fewer cows are not milking while waiting too long to have another calf. And of course cows that do not get pregnant must be sold for slaughter.

LibanVet staff are now using the metal calving chains and handles brought from the United States with volunteer Walter Hylton for all assisted calf deliveries. These instruments can be cleaned and disinfected, so they are more sanitary than the ropes they were using previously, before the introduction of a new method. These chains can be adjusted for the proper pull, whereas the ropes did not allow for any adjustment.

With LibanVet, the volunteer visited more than 400 individual farms to diagnose and treat a wide variety of disease conditions. After reviewing their current situation, the volunteer went over the best ways to approach and solve problems that the farmers identified. In addition to on-the-job training, the volunteer brought with him several textbooks on veterinary medicine and surgery of cattle, including a color atlas. Together with LibanVet, the volunteer looked at the materials and would refer to them while discussing many relevant topics. The materials were left with the practice to use as resources.

Veterinary care is vitally important to the success of the dairy farm. It is an expense for the farmer, but the return from saving animals and increasing their productivity far outweighs the cost. Veterinarians are responsible for the vital task of protecting the country's livestock from catastrophic diseases such as foot and mouth. Volunteer Walter Hylton stated "I have been extremely gratified by the adoption of my techniques by my colleagues in Lebanon. These are concrete examples of the value of the Farmer-to-Farmer program."

Jordan: Annette Aitkenhead on Marketing Strategy for Princess Basma Development Centre in Aqaba

Princess Basma Development Centre (PBDC), one of the community centers that comes under the Jordan Hashemite Fund for Human Development (JOHUD), was established and began its operating activities in 1990 in Aqaba. The Center was created with the intention to assist local communities, train and empower women's groups, promote sustainable development projects for local communities to enhance the living conditions and to build partnerships to support the fund for different activities and programs using local resources.

The PBDC has since expanded and has opened five mobile centers around the Aqaba Governorate, including in Al Quwairh, Al Disah, Dabat Hanoout, Al Humaimah and Al Rishah. The Center operates both a women's committee and a youth committee and through these committees work to identify the needs of the community and provide assistance through different programs of children and youth programs, building up and strengthening their personal and interpersonal skills, and empowering women through training and educational programs.

The women of PBDC are trained to make several products including handicrafts, olive oil extraction, perfumes, local dishes, knitting, embroidery and sewing. ACIDI/VOCA volunteer Annette Aitkenhead, a marketing specialist from New Jersey, stayed in Aqaba for two weeks to work with the women of PBDC on improving the quality of their products. She trained the women and helped them understand who their primary consumer is and how to appropriately target and market their products to the customer. The volunteer worked with the women on this aspect of their work as she identified their main problem as marketing and selling their products in the market.

The volunteer assisted in changing the women's way of thinking to focus on market demand rather than just producing and then trying to find a buyer. She worked with the women on first evaluating what the market was in need of, and responding to those needs, instead of the "push" or "dump" approach, which does not take in consideration market demand. In addition, women started to participate in different workshops and bazaars and started to produce products that are corresponding to the market demand, as a result of the volunteer's recommendations.

Om Amer, a widowed mother with six kids said that her income has nearly doubled from 5 percent to 10 percent in just one month after working with the volunteer. She sells handicrafts and does embroidery and now understands who her consumer is and how to produce according to demand. She also added that she enjoys her time now making market oriented products.



Om Amer, a widowed mother with six kids said that her income has nearly doubled from 5 percent to 10 percent in just one month after working with the F2F volunteer.

MOROCCO: F2F VOLUNTEER CREATES MARKET LINKAGES FOR WOMEN'S COOPERATIVE

Les Femmes de Marrakech is an all-women's handcraft cooperative specializing in sewing and embroidery. The organization was founded in 1998 by nine women who self-financed the loans for the materials and space to begin production. These nine women were originally brought together in 1987 as employees at a textile workshop owned by an American couple in Marrakech. When the American couple decided to leave Marrakech in 1991 for health reasons, they offered the women the opportunity to purchase the workshop equipment and continue their textile work. With a combination of self-financing and credit from a French NGO, the women were able to purchase the equipment and continue the textile work that they had been doing together since 1987. In 1998, these nine women formed a formal cooperative; *Les Femmes de Marrakech*. All nine original members still remain in the cooperative today. In an effort to increase production and quality, the women now work in a network of six other cooperatives, resulting in an additional 30 women who work together on the different products.

Since their creation, the cooperative has worked with various organizations both locally and internationally to improve production. For two weeks in June, the cooperation hosted ACDI/VOCA volunteer Lyn Nelson, a design and marketing expert from California, on a handcraft production assignment. Upon arriving in Marrakech and reviewing the women's products, Ms. Nelson soon realized that the objective of her assignment would not be to increase



Volunteer Lyn Nelson (right) worked with members of *Les Femmes de Marrakech* on the design for Victor Gonzalez's (second to the right) wholesale order.

quality; for the women were already producing impeccable products at the highest quality, however, her assignment would be to create new opportunities for the women. This included introducing new products, altering the shapes and color palettes of existing products to create entire collections, and identifying new market channels for their products.

Before making any recommendations, Lyn Nelson traveled with members of the cooperative to local museums, markets, and botanical gardens for inspiration for new ideas. Together they took pictures representative of local symbols, designs, and colors to incorporate into designs for future products for the women. As Marrakech is one of the most popular tourist destinations in Morocco, the volunteer worked with the

women to create color schemes and designs that would represent authentic local products that would be unique and symbolic of Marrakech history and traditions. As the

women of the cooperative expressed interest in focusing on export markets, Ms. Nelson worked with them to create new designs that would appeal to export markets. She modified existing

products and tailored them to the size, color, and design preferences of the targeted international markets. After working with the volunteer for two weeks, the cooperative sold thirty of the new design products in the first week alone.

Additionally during Lyn Nelson's assignment, *les Femmes de Marrakech* was invited to host a table to display their products as a part of ACDI/VOCA's closeout ceremony for Farmer-to-Farmer activities on June 6, 2013. During the ceremony, Ms. Nelson gave a presentation on her assignment with the cooperative and after the presentation was completed, the close to 100 guests were invited to stop by the women's stand to see their finished products. The market bag, a new product the volunteer created with the women using a new, colorful and light fabric they had not worked with before, was highly appreciated. Saida Chaobouni, the cooperative's president said "all of the market bags we brought were purchased by the guests. We were very pleased." The event served not only as an opportunity for the women to sell their products on the spot, but also as an opportunity to market their high quality products.

As a result of their stand at the ceremony, *Les Femmes de Marrakech* has secured one more international client. Victor Gonzalez, owner of Victor's Lavender in Sequim, Washington, was also at the ceremony as a volunteer for ACDI/VOCA. Mr. Gonzalez is a lavender production specialist who was on a Farmer-to-Farmer assignment in Morocco working with lavender producers in Oulmes. Mr. Gonzalez was so impressed by the quality and uniqueness of the women's products, that he decided to make a wholesale order for himself, including a lavender theme using lavender fabric and incorporating embroidery of the lavender flower. He ordered 100 of the market bags—the new bags the women began making with the help of Lyn Nelson. Additionally, he ordered 50 keychains and 50 necklaces. The order resulted in 13,000 Moroccan dirham worth of sales—approximately \$1,560, nearly 20 percent of the women's annual gross sales from 2012. Mr. Gonzalez arranged to have the wholesale order shipped to his business in Washington state. During the Sequim lavender festival—which happens every July, 90 percent of the products were sold within three days. Based on the demand for the women's products in Sequim, Mr. Gonzalez plans to make another, larger order soon. *Les Femmes de Marrakech* are more than ready for that order.



The market bag collection: Volunteer Lyn Nelson introduced this new product using a set of fabric found in the local market that the women have never worked with before. According to the cooperative's president, this product has become their #1 seller.

F2F MENA ASSOCIATE AWARDS

Since program inception ACDI/VOCA has marketed the F2F LWA worldwide. Three USAID Missions have utilized the F2F MENA LWA mechanism during LOP. Following the table below is a brief update on each of the F2F MENA Africa associate awards.

Country	Program Title	Start – End	LOP Budget	Obligated Amount by FY
Lebanon	Lebanon Agricultural Quality Control and Certification (QCC) Program	7/21/09 – 7/20/12	\$3 Million Donor Cost \$146,865 Leverage Total Value: \$3,146,865	FY09: \$1,500,000 FY10: \$1,500,000
Lebanon	Developing Hydroponics to Access International Markets (DHAIM)	8/12/10 – 8/11/15* Changed to 9/31/2013	\$22, 6 Million Donor Cost Leverage: \$238,869 Cost Share: \$214,671 Total Value: \$22,650,811	FY10: \$5,720,295 FY11: \$6,268,000
Liberia	Smallholder Oil Palm Support Project (SHOPS)	4/13/11 – 4/12/14	\$3.7 Million Donor Cost Cost Share: \$208,865 Total Value: \$3,746,559	FY11: \$1,875,000 FY12: \$720,000 FY13: \$1,096,263

LEBANON QCC ASSOCIATE AWARD

Objective: From 2009 – 2012, ACDI/VOCA’s Agricultural Product Quality Control and Certification Program (QCC) helped to increase the global competitiveness of Lebanon’s agro-processing industry through sustainable expansion and improved quality of market-oriented services provided by accredited and certified laboratories and plants. The QCC program supported the Chambers of Commerce, Industry and Agriculture in Zahle, Tripoli and Saida in obtaining new laboratory equipment and preparing for and achieving ISO 17025 accreditation. QCC also supported the Zahle and Saida facilities in the physical expansion of the laboratory space in accordance with the ISO 17025 requirements.

Role of Volunteers: The QCC program fielded six volunteer consultants to Lebanon over the life of project, despite the projected target of 11 volunteers. One of the main reasons for recruiting fewer volunteers than predicted was that the QCC program, through various market assessments and discussions with beneficiaries, found that a large majority of their needs were from a highly specialized industry that does not attract many volunteer consultants. They also required iterative and recurrent inputs (i.e., technical assistance and trainings), for which relying on local service providers and consultants to a large extent proved to be a more sustainable method of developing the capacity of the labs. In addition, using local consultants and service providers, especially to prepare the labs for ISO 17025 accreditation, allowed the lab staff to build networks of local and regional service providers they could rely on after the end of the QCC program. Volunteer consultants were used to enhance the management capacity of the local partners, advise the CCIAAs on specific technical techniques and topics, and inform SMEs and lab managers of international best practices and methods.

Results: Assisting the labs in achieving ISO 17025 accreditation was one of the primary areas of focus under the first objective. Accreditation to ISO 17025 is an international recognition of testing competence and provides both operational and business benefits for the labs and their customers. While improving the international reputation and image of the laboratory, it also ensures continual improvement of data quality and effectiveness. The practical benefits of these technical and management quality improvements are seen on a daily basis in the laboratory and include: faster identification and resolution of issues regarding methods, personnel or equipment, improved customer satisfaction, met quality requirements, and overall increased laboratory business. Food exporters need their products tested at a lab that is certified with ISO 17025 to access many international markets. QCC also assisted the labs in improving their technical and managerial capabilities and offering new and expanded services through equipment procurement.

To achieve the second objective, QCC worked to improve business models among the network of business service providers, namely the labs, to ensure the profitability and sustainability of program interventions. QCC provided intensive capacity building to lab staff on marketing and business activities and developed and implemented improved business plans, strengthened marketing activities and developed reliable revenue projections.

A third goal of QCC was to help strengthen the agrofood industry in Lebanon, overall, so that upon project close out, local service providers were better able to work in synergy to serve as a resource for the industry. Aside from the three supported labs, key project and industry stakeholders included other facilities such as the Industrial Research Institute (IRI), the Lebanese Agriculture Research Institute (LARI) and other university and private labs, such as the labs at the American University of Beirut (AUB) and St. Joseph University (USJ). QCC expanded communication among these stakeholders and helped them identify mutually beneficial activities. QCC collaborated closely with the Syndicate of Lebanese Food Industrialists (SLFI), which represents the interests of a large portion of Lebanese food exporters. QCC also worked to empower QUALEB, the European Union-funded quality program of the Ministry of Economy and Trade¹, to spearhead joint initiatives among key service providers in the food industry. QUALEB is the umbrella for all labs and quality programs in the country, and thus was already placed to act as a leader in building a long-term sustainable network for technical exchanges among the service providers and provide necessary support for the food industry.

Upon completion of the program, QCC exceeded its cost share target of \$146,865, reaching a total of \$197,996, since the CCIA's invested significant amounts of their own funds into the upgrading activities.

LEBANON DHAIM ASSOCIATE AWARD

Objective: The DHAIM project was a five-year activity seeking to foster rapid, sustained, and broad-based economic growth in Lebanon's agricultural sector. In FY13, DHAIM finalized a program redesign and modification under the guidance of USAID. Due to further guidance from USAID, the project finished all activities in-country by September 30, 2013.

DHAIM focused on the following components: 1) Access to Markets and Market Intelligence; 2) Horticulture Production and Post-harvest handling; 3) Business Development Services and Capacity Building. Interventions will improve the competitiveness of the greenhouse sector through the promotion of best agricultural practices, improved decision making and risk management and increased access to markets, market information and business linkages, including access to credit for producers and agriculture enterprises. DHAIM activities were conducted through key partners including the Chambers of Commerce, Industry and Agriculture (CCIAs) in Zahle, Saida and Tripoli, and Arcenciel (AEC), the Hariri Foundation (HF), the Rene Moawad Foundation (RMF), and the Safadi Foundation (SF). Subsequently, volunteer assignments were focused on supporting activities within the three components, especially targeting assignments within component three, including BDS and capacity building of the DHAIM seven partners.

Role of Volunteers: The volunteers supporting DHAIM provide the technical backbone for the success of the project, particularly in areas related to agriculture extension and other needed services to under-served geographic area. The volunteers and their work provide the basis for our work with producers and also helps shape the capacity of partners and their staff members in providing similar type of training in the field. During this reporting period, volunteers provided assistance focused on greenhouse management, irrigation systems, plant pathology, strategic planning, and business development.

Accomplishments: ACDI/VOCA fielded seven volunteers during the reporting period of August 2012 to July 2013.

Donald Wheeler volunteered twice during this period. During his first assignment he focused on leveraging and supporting partner organizations staff on business development strategies, directly assisting 22 people and training 12 people. During his second assignment, Donald helped the Agricultural Development Department define a strategic plan that outlines short, intermediate, and long term-term priorities for the department. Through his efforts, 12 people were directly assisted and 9 people were trained. Additionally, Don Wheeler coordinated the volunteer assignments for Albert Green, Richard Edwards, and Steve Roosa.

Albert Green worked with the Rene Mowad Foundation to produce an integrating agroprocessing business plan on the foundation's cold storage and fresh-cut processing facilities as two distinct, but related revenue generating activities. Five people directly benefited.

Richard Edwards helped the Agricultural Development Department further define a strategic plan that outlines short, intermediate, and long term-term priorities for the department. Through these efforts, 10 people were directly assisted and 4 people were trained.

Steve Roosa facilitated the institutional strategic planning exercise for the CCIA-Saida. This exercise resulted in a 5 year strategic plan for making the CCIA's agricultural value chain services financially sustainable. Through this work, 8 people were directly assisted and 4 people were trained.

Dan Rice was brought in as a volunteer Post-Harvest handling horticulture specialist to conduct an assessment of the current state of post-harvest handling elements of the fruit and vegetable value chains under the DHAIM framework. As part of this he interviewed and visited several wholesale aggregation sites packing sheds, farmgate packing sites, and trader warehousing/cold houses. As part of this assignment he was not tasked with conducting training per se, but provided ad hoc technical advice during his site visits based on his expertise in packing shed operations and best practices in post-harvest handling. Fourteen people were directly assisted through Dan's work.

Tommy Sallee was a statistician volunteer who worked remotely on the DHAIM Lebanon Laboratory Needs Assessment demand survey methodology. His assistance included helping the research team define the research data frames and corresponding questionnaire; drafting the corresponding analytical R scripts for each question; cleaning and organizing the data; and running summary statistical analyses. There were two beneficiaries: Capacity Building Specialist, Dan White and Celine Melki, the DHAIM staff leading the demand survey.

Bill Meyer was brought in to conduct an assessment of the Federation of Chambers of Commerce Market Price Information System (MIS). As part of this assessment he interviewed and made ad hoc recommendations for improvement to the responsible managers and MIS data collection agents at the regional and central Chambers of Commerce. His recommendations were summarized and presented to the Federation of CCAs as ways to improve their data collection methodology and promotion of the system to potential clients. Through Bill's work, 9 people were directly assisted.

LIBERIA SHOPS ASSOCIATE AWARD

Objective: The main objectives of the project are (1) increased productivity and profitability of Liberia's smallholder oil palm sector, (2) improved marketing and trade capacity of the sector, and (3) improved enabling environment and support functions. The activities of SHOPS will lead to increased access and awareness of essential oil palm production inputs such as high quality *tenera* seeds, fertilizer and seeds and seedlings for leguminous cover plants through promotional campaigns and technical assistance targeting producers investing in oil palm production. SHOPS will also train Liberian metal manufactures and vendors on oil palm processing equipment and link producers and manufactures to marketing information and provide information on the Roundtable on Sustainable Palm Oil (RSPO) certification process. SHOPS also seeks to increase the support of the oil palm value chain through improved access to appropriate financial services, potential synergies between oil palm processing and renewable energy, promotion and protection of smallholder interests such as lender tenure and providing equity measures to maximize participation of women and youth.

Role of Volunteers: The SHOPS volunteer team developed nine Scopes of Work and completed 12 assignments in Year 2. Examples of the assignments include:

Monica Noorley worked closely with three Monrovia soap manufacturers to understand and calculate unit price. After determining basic prices she made recommendations from both business and technical perspectives to lower costs. Recommendations included standardization, measurement by weight not volume, bulk buying of major raw materials, reduced use of caustic

ingredients and the formation of a soapmakers union. SHOPS will continue to follow-up with the soap makers to monitor implementation of the recommendations.

David Speidel implemented a small-scale irrigation assignment installing a demonstration irrigation system at the Group Unity for Development nursery. The installation allows nursery operators such as GUD to double their production, reduce labor hardship and improve plant health with little to no increase in labor cost. SHOPS staff, along with GUD, were introduced to concepts and practical exercises in surveying, irrigation installation and land ethics that are key to the continuation and expansion of oil palm seedling production in sufficient quantities to meet independent smallholder demand.

The third assignment, undertaken by Larry Plesent, covered ergonomics and work flow within three Monrovia based soap manufacturers and provided training on the chemistry of soap making at Nimba County Community College. Larry's work with the soap manufacturers on ergonomics followed-up on the manufacturers' progress from a previous visit 1 year earlier.

Presently, the soap industry is faced with difficulties due to the price of palm oil and palm kernel oil over the last 3-4 months. Many of the smaller manufacturers have gone out of business and only the more organized businesses are still producing soap. While the manufacturers adopted some of the most important recommendations such as discontinuing the use of dangerous camphor bulb (mouth balls), overall adoption and consistency of adoption of innovations such as mixing CPO and PKO in quantities of 20/80, improved workplace safety, payment of reasonable and legal wages, and use of essential oil and others has been poor.

Importantly, the combined soap makers enterprises were unable to move forward on creation of a Liberian Soap Makers Association/Union. SHOPS, in collaboration with the ACDI/VOCA organization development specialist, provided information to the soap manufacturers on the procedures for legalizing the union through the CDA. The training in Nimba County Community taught why oils are turned into soap in the presence of caustic additives, how soap crystals grow (why box soap is superior to iron soap) and how to make two types of caustic inputs from local materials.

Results: In Year 2, SHOPS volunteer assignments have focused on building organizational and management capacities of the hosts. Several interesting Scopes of Work with Credit Unions combined well with the SHOPS financial services component to lead to financing of the credit unions under the national program LEAF. Another assignment assisted the CBL in developing a policy and regulatory framework for credit unions. Host institutions under the volunteer component included cooperatives, women's structures, community groups, a community college and the Central Bank of Liberia. Technical Scopes of Work focused on bridging the technical demands of intensive oil palm production with the resources and assets of smallholders.

ANNEX 2: MENA VOLUNTEER ASSIGNMENT SUMMARIES FOR FY13

EGYPT

Egypt Assignments by Sub-sector

Volunteer Consultant	Assignment Title	Host Organization	Assignment Dates	Total Days
Horticulture Assignments				
Matilde Durzo	Seedlings Production Under Greenhouses	EI-Hekma Association; Armant Association	10/13/2012 – 10/24/2012	12
Wayne H. Thompson	Manure Composting	Egyptian Biodynamic Association (EBDA)	11/01/2012 – 11/16/2012	16
Mohamed Abdel Rahman	Collection Centers Management	EI-Nogoaa Association; Asfoun Association; EI-Mataana Association	01/10/2013 – 01/25/2013	16
Mickey Robert Foley	Organic Production of Mushroom	Egyptian Biodynamic Association (EBDA); Grants, Innovation, Technology, Transfer Center (GITTC)	01/11/2013 – 01/25/2013	15
Matilde Durzo	Greenhouse Production Technology	EI-Hekma Association; Almoustaqbal Association (EI Selsela); AIAMI Agricultural Cooperative	01/12/2013 – 01/25/2013	14
Kenneth M. Bajema	Spring Onion Production	Horticultural Export Improvement Association (HEIA)	02/01/2013 – 02/13/2013	13
Michael Lowery	Finance Management for Associations	Fayoum Agro Organic Association (FAODA); Nahdat Beni-Suief Foundation	02/11/2013 – 03/01/2013	19
James Correll	IPM for Vegetables	Egyptian Union of Producers and Exporters of Horticultural Crops (UPEHC)	02/16/2013 – 02/27/2013	12
Scott Stovall	Strategic Business Planning for Associations	AIAMI Agricultural Cooperative; EI-Hekma Association; EI-Mataana Association; EI-Nogoaa Association; Asfoun Association; Almoustaqbal Association (EI Selsela)	02/16/2013 – 03/01/2013	14
Mohamed Ismail	Citrus Post-Harvest Management	Agriculture and Agro-industries Technology Center (ATC); Grants, Innovation, Technology, Transfer Center (GITTC)	02/23/2013 – 03/03/2013	13
Edward Doherty	Interpersonal Communications, Behavioral Dynamics, and Conflict Management Specialist	EI-Hekma Association; Almoustaqbal Association (EI Selsela)	03/04/2013 – 03/20/2013	17
Arthur Villordon	Sweet Potatoes Production	Grants, Innovation, Technology, Transfer Center (GITTC)	03/08/2013 – 03/22/2013	15
(Edward) Jim Valentine	Sundried Tomato Production	Agriculture and Agro-industries Technology Center (ATC)	03/09/2013 – 03/21/2013	13
Diane Griffin	Monitoring and Evaluation Follow-up	Fayoum Agro Organic Association (FAODA)	03/10/2013 – 03/22/2013	13
Mohamed Abdel Rahman	Cold Chain	Agricultural Community Development Association "ACDA"; EI-Mataana Association; Asfoun Association	03/13/2013 – 03/29/2013	17
Frantz Claude Ventre	Grape Production	Agricultural Community Development Association "ACDA"	03/17/2013 – 03/30/2013	14

Cathryn Kloetzli	Greenhouse Production Technology Follow-up	West Nubaria Cooperative; AIAMI Agricultural Cooperative; Almoustaqbal Association (El Selsela); Bangar Al-Sokar Cooperative; El-Hekma Association	03/29/2013 – 04/13/2013	16
Damien Connaughton	Floriculture Production	Egyptian Union of Producers and Exporters of Horticultural Crops (UPEHC)	03/29/2013 – 04/12/2013	15
Nancy Bergau	Handicraft Marketing	Fayoum Agro Organic Association (FAODA)	04/05/2013 – 04/19/2013	15
Ross Hayes Penhallegon	Strawberry Production, harvesting and Post-harvest	Grants, Innovation, Technology, Transfer Center (GITTC)	04/14/2013 – 04/25/2013	13
James Edward Neibauer	Cherry Tomato Production	Grants, Innovation, Technology, Transfer Center (GITTC); West Nubaria Rural Development Project (WNRDP) Lab	04/19/2013 – 05/01/2013	13
William Campbell	Potato Production	Egyptian Union of Producers and Exporters of Horticultural Crops (UPEHC)	04/19/2013 – 05/03/2013	15
Mike Gangwer	Modern Irrigation Management	Egyptian Union of Producers and Exporters of Horticultural Crops (UPEHC)	05/04/2013 – 05/17/2013	14
Jennifer Gillett-Kaufman	IPM for Citrus	Egyptian Union of Producers and Exporters of Horticultural Crops (UPEHC)	05/19/2013 – 05/03/2013	15
Robert E. Call	Fruit Tree Nursery Management	Egyptian Union of Producers and Exporters of Horticultural Crops (UPEHC)	05/06/2013 – 05/24/2013	19
Enos William Rogister	Peanut Production	El-Hekma Association; Beit Khalaf Association; AIAMI Agricultural Cooperative; West Nubaria Rural Development Project (WNRDP) Lab	05/10/2013 – 05/24/2013	15
James Kamas	Stone Fruit Production	Egyptian Union of Producers and Exporters of Horticultural Crops (UPEHC)	05/17/2013 – 05/31/2013	15
Justin Scheiner	Table Grape Production	Grants, Innovation, Technology, Transfer Center (GITTC)	05/17/2013 – 05/31/2013	15
Mike Gangwer	Modern Irrigation Management	West Nubaria Rural Development Project (WNRDP) Lab	06/15/2013 – 06/28/2013	14
Michael Lachance	Biological Control	Grants, Innovation, Technology, Transfer Center (GITTC); Egyptian Biodynamic Association (EBDA)	06/15/2013 – 06/28/2013	14
Livestock and Dairy Assignments				
Corine Quarterman	Technical Feasibility Study for Milk Collection Centers	Nahdat Beni-Suief Foundation; Assuit Business Women association; Definno	11/10/2012 – 12/14/2013	35
Jeff Cage	Manure Composting	Egyptian Biodynamic Association (EBDA); Grants, Innovation, Technology, Transfer Center (GITTC)	11/30/2012 – 12/20/2012	21
Diego Caledron	Animal Health Care	Nahdat Beni-Suief Foundation	03/22/2013 – 04/05/2013	15
Wendy Rapp (Flatt)	Animal Reproduction	Grants, Innovation, Technology, Transfer Center (GITTC); West Nubaria Rural Development Project (WNRDP) Lab	05/06/2013 – 05/22/2013	17
Roger L. Dreyer	Meat Processing Technology	Grants, Innovation, Technology, Transfer Center	06/01/2013 – 06/14/2013	14

		(GITTC)		
Flexible Assignments				
Hannah Schrum	Fertilization management for vegetables	Grants, Innovation, Technology, Transfer Center (GITTC)	10/15/2012 – 10/25/2012	11
James G. Miller	Over Wintering of Bees	Union of Arab Beekeepers	11/25/2012 – 12/09/2012	15
Edward Doherty	Interpersonal Communications, and Conflict Management	Grants, Innovation, Technology, Transfer Center (GITTC); Assuit Business Women association	11/29/2012 – 12/13/2012	15
Hany Khalil	Labeling and Packaging of Bee Honey Production	Union of Arab Beekeepers	12/26/2012 – 01/07/2013	13
Diane Griffin	Monitoring and Evaluation for Associations	Fayoum Agro Organic Association (FAODA)	01/12/2013 – 01/25/2013	14
Roger Palm	Aquaculture	British Gas-Farmer Group	03/01/2013 – 03/15/2013	15
Kris Fricke	Modern Beekeeping Practices	Union of Arab Beekeepers	04/18/2013 – 05/03/2013	16
Joseph Sullivan	Aquaculture Production Follow-Up	British Gas-Farmer Group	04/19/2013 – 05/10/2013	22
Garret Dodds	Queen Rearing	Union of Arab Beekeepers	05/18/2013 – 05/31/2013	14
Barakat Mahmoud	Food Safety and Security	Grants, Innovation, Technology, Transfer Center (GITTC)	05/24/2013 – 06/08/2013	16

Egypt: Horticulture

Seedlings Production Under Greenhouses, Matilde D’Urzo, 10/13/2012 – 10/24/2012:

Assignment Description: The USAID-funded GDA project requested a VC to work with Two associations in Upper Egypt to maximize their productivity and profitability as greenhouse owners by enhancing their capacity to efficiently produce high quality seedling. During this assignment, the volunteer Matilde Paino D’Urzo assisted nine males and 12 females, including member smallholder farmers from the two associations’ as well as beneficiaries from the associations’ services.

Targeted Host Organization: El-Hekma Association; Armant Association

Recommendations: The volunteer recommended making sure that the greenhouse cover fits the entrance and all parts of the structure, providing leveled access at the surface so there is no gap under the entrance, and adding crushed white bricks to the rock bed to help reflecting and to fill cracks where weeds grow. The volunteer proposed that assembling a higher and sturdier metal frame would help working operations and provide a more even and stable tray support. He also recommended the use of a water spigot and a hose inside the greenhouse.

Harvest Quantity and Quality Estimations, Wayne H. Thompson, 11/01/2012 – 11/16/2013:

Assignment Description: The EBDA requested a VC to maximize the productivity and profitability of small farmers and processors by enhancing their capacity to efficiently select the best planting time for their crops. During this assignment, the volunteer Wayne Thompson assisted 97 males from EBDA beneficiaries and their member farms, Techno-green and PICO farms.

Targeted Host Organization: Egyptian Biodynamic Association (EBDA)

Recommendations: The volunteer recommended facilitating the establishment of a compost equipment/machinery distributor in-country for items such as compost blankets, turners, grinders, screeners, temperature probes, and monitoring equipment). He also recommended facilitating access

to compost testing laboratory facilities. Regarding the composting site locations, the volunteer recommended positioning sites in locations within easy and efficient access to feedstock sources, developing a series of training videos to address the management of key composting steps and initiating and establishing a five-day hands-on training program for compost facility managers to be repeated annually.

Collection Center Operation & Management Specialist, Mohamed Abdel Rahman, 01/10/2013 – 01/25/2013:

Assignment Description: Egypt has a poorly-developed supply chain for fresh fruits and vegetables. Three associations in Upper Egypt are receiving a collection center through a USAID-funded In-Kind Grant and requested a VC to enhance their capacity to manage and operate the collection center. The objective of the assignment was to develop and begin to implement a rigorous training program that will eventually enable the associations to manage and operate the collection center sustainably. During this assignment, the volunteer Mohamed Abdel Rahman assisted and trained seven males representing the three associations.

Targeted Host Organization: El-Nogoaa Association; Asfoun Association; El-Mataana Association

Recommendations: The volunteer recommended that a financial decision must be made about whether to use the refrigerated cold trucks to pre-cool the produce in the field and if so, the inclusion of refrigerated temporary storage room within the collection center. He recommended that a decision must be made to finalize the plans for the construction of the collection center along with a detailed budget to include the cost of connecting water and electricity. The volunteer recommended starting construction of the collection center as soon as possible along with securing the purchase of the needed equipment to operate the collection center.

Organic Mushroom Production, Mickey Robert Foley, 01/11/2013 – 01/25/2013:

Assignment Description: EBDA and GITTC requested a volunteer consultant to improve the production of the Egyptian mushroom producers in the Nobarria and Delta regions to switch from traditional to organic production in order to sell their products for higher prices and ultimately increase their incomes by efficiently producing high-quality mushrooms. The VC presented a seminar on producing organic mushrooms including best practices in the areas of compost preparation, spawn production, biological pest management and disease control, quality standards, harvest and post-harvest management. During this assignment, the volunteer Mickey Foley assisted 11 males and four females.

Targeted Host Organization: Egyptian Biodynamic Association (EBDA); Grants, Innovation, Technology, Transfer Center (GITTC)

Recommendations: The volunteer recommended evaluating current use of pesticides and disinfectants. He recommended that the farmers develop an integrated pest management program (IPM) to control mushroom pests and diseases. He also recommended that the farmers continue to gain experience by growing small crops of mushrooms, cure holes in plastic so the water can drain, reduce the velocity of air and develop insect traps in order to monitor insect populations inside each production room on the farm every day.

Greenhouse Production Technology, Matilde D'Urzo, 01/12/2013 – 01/25/2013:

Assignment Description: The USAID-funded GDA project requested a VC to work with three associations in Upper Egypt to enhance the capacity of the Egyptian greenhouse producers to efficiently produce high value crops, manage their profitability and operate their greenhouse facilities. The VC trained and provided technical assistances to the associations' representatives and assisted in the development of a production calendar. During this assignment, the volunteer Matilde Paino D'Urzo assisted and trained nine males representing the three associations.

Targeted Host Organization: El-Hekma Association; Almoustaqbal Association (El Selsela); AlAml Agricultural Cooperative

Recommendations: The volunteer recommended establishing a maintenance schedule for the mechanical equipment and irrigation system and procuring spare parts for the pump and the irrigation line. She also recommended that their record keeping needs to be consistent and should incorporate all aspects of production; including losses, being aware of the source of the planting material and its characteristics in as much details as possible (origin, age, purity, germinability, type etc). Lastly, she recommended that the associations ensure that there is no smoking in the greenhouse during any phase of seed and plant handling.

Spring onion Production, Kenneth M. Bajema, 02/01/2013 – 02/13/2013:

Assignment Description: HEIA requested a VC to enable their technical staff to provide HEIA members with the required technical assistance to adequately upgrade and maintain their production and postharvest of quality and high value spring onions. The VC reviewed HEIA's current practices in spring onion production, postharvest, and storage and made recommendations for improvement. During this assignment, the volunteer Kenneth Bajema directly assisted two females and 24 males.

Targeted Host Organization: Horticultural Export Improvement Association (HEIA)

Recommendations: The volunteer recommended that it is necessary to have the correct onion spacing within the row to increase yield and quality, a spacing of 2.0 to 5.0 cm will encourage healthy bulbs and result in a higher percent of quality onions. The volunteer also recommended that the onions should be irrigated often enough to keep the soil moist and on raised beds to promote good drainage, as onions grown in crop rotations will help maintain soil fertility, control disease and insects and weeds. He recommended that onions should be planted only once in every three to five years on the same field. Lastly, he said that the seeds must be high quality certified seeds, even if more expensive.

Financial Management for Associations, Michael Lowery, 02/11/2013 – 03/01/2013:

Assignment Description: FAODA and Nahdet BaniSuif Foundation requested a VC to enhance the capacity of local farmer associations to efficiently provide their members with economic and financial services through maintaining adequate accounting, procurement and personnel systems. The VC conducted a training workshop on how to prepare cash flow and fill out balance sheets, how to manage discrepancies in financial reports and make yearly projections, as well as how to put together project funding summaries and financial proposals. The workshop was attended by the two host organizations' board members and staff. During this assignment, the volunteer Michael Lowery assisted 23 males and 18 females and trained 10 males and 13 females.

Targeted Host Organization: Fayoum Agro Organic Association (FAODA); Nahdat Beni-Suief Foundation

Recommendations: The volunteer recommended FAODA rearrange their office and training areas to be organized upstairs, and consider the purchase of accounting software (Peachtree or equivalent). He emphasized the importance of confidentiality--making sure that all financial matters are kept strictly private. To do so, he recommended that only the individual farmer and the relevant manager should have access to the farmer's records, whether electronic or hardcopy.



Volunteer James Correll inspecting plants for diseases

IPM for Vegetables, James Correll, 02/13/2013 – 02/27/2013:

Assignment Description: UPEHC requested a VC to enable their members to significantly minimize the use of pesticides in tomato, onion and cucumber farms, using the most appropriate pest control methods in an environmentally and economically sound manner. The VC visited five farms and conducted a seminar at UPEHC to present his observations and recommendations to UPEHC staff and

some of the owners of the visited farms. During this assignment, the volunteer James Correll assisted and trained 46 males from the beneficiaries of UPEHC.

Targeted Host Organization: Egyptian Union of Producers and Exporters of Horticultural Crops (UPEHC)

Recommendations: The volunteer recommended vegetable growers to continue to seek using high quality contemporary vegetable hybrid seeds, which appear to be readily available in Egypt. He recommended that some efforts should be initiated to try to reduce pollution to both waterways and farms with empty pesticide containers. He recommended also that highly efficient practices such as those observed at Technogreen farm (one of the five farms visited during the assignment) should be communicated to local farmers so that they are aware of what tools are available in the area for smaller farm production. He also stated that record keeping can be improved and that the crop residue should be removed from the production areas, buried, or burned to reduce pest pressure.

Citrus Postharvest Management, Mohamed Ismail, 02/23/2013 – 03/07/2013:

Assignment Description: GITTC and ATC requested a VC to enhance their staff and beneficiaries' capacity to efficiently produce high quality citrus for export markets, maintain the quality, protect food safety and reduce losses between harvest and consumption. The VC visited citrus farms in Upper Egypt and in the Delta region and conducted two seminars for the two organizations, targeting the staff and their beneficiaries. During this assignment, the volunteer Mohamed Ismail assisted and trained 40 males from the beneficiaries of the two host organizations.



Volunteer Mohamed Ismail speaking with citrus farmers in Assiut, Upper Egypt

Targeted Host Organization: Agriculture and Agro-industries Technology Center (ATC);Grants, Innovation, Technology, Transfer Center (GITTC)

Recommendations: The volunteer recommended reducing citrus tree size by proper pruning to facilitate harvesting and to practice effective pest and disease control by replacing old low producing groves and by using certified disease free nursery stock. He recommended practicing proper harvesting methods and using cardboard or paper liner when using baskets made from palm leaf midribs to protect the fruit from injury.

Interpersonal Communications, Behavioral Dynamics, and Conflict Management Specialist, Edward Doherty, 03/04/2013 – 03/20/2013:

Assignment Description: The USAID-funded GDA project requested a VC to assist train the technical field managers of two associations in Upper Egypt on the soft skills required to better manage their resources (human, financial and physical) for improved work environment and job performance. During this assignment, the volunteer Edward Doherty assisted seven males.

Targeted Host Organization: El-Hekma Association; Almoustaqbal Association (El Selsela)

Recommendations: The primary focus of this assignment was capacity building rather than problem solving. No review was made of technical issues with either association.

Sweet Potatoes Production, Arthur Villordon, 03/08/2013 – 03/22/2013:

Assignment Description: GITTC requested a volunteer consultant to maximize the productivity and profitability of sweet potatoes growers by enhancing their capacity to efficiently produce high value

alternate crops for local and export markets such as sweet potatoes. During this assignment, the volunteer Arthur Villordon assisted 52 males and 19 females and trained 35 males and 19 females from GITTC beneficiaries.

Targeted Host Organization: Grants, Innovation, Technology, Transfer Center (GITTC)

Recommendations: The volunteer recommended reducing nitrogen to 20 kg/fed pre application and apply around 60 kg/fed of phosphorus and potassium. He recommended that they reduce exposure to heat during harvesting, conduct a survey of virus presence in nurseries (from November to April) and in production fields (from April to November), conduct on-farm demonstrations to show the advantages of virus-tested seeds, and conduct training and educational programs that focus on the importance of using clean virus-tested seeds.

Sundried Tomato Specialist, (Edward) Jim Valentine, 03/09/2013 – 03/21/2013:

Assignment Description: Egypt is one of the biggest producers of tomatoes in the world and produces tomatoes all year round; however, fresh tomato production suffers from losses. One of the new techniques introduced in country to reduce losses is by sun drying the tomatoes. In an effort to add value to their product, the ATC requested a VC to help the tomato growers in Upper Egypt to produce clean, healthy, high value and quality sundried tomatoes. The VC prepared training material and gave a seminar on sundried tomato best practices in both processing and packaging to the members of two associations working with ATC. During this assignment, the volunteer Jim Valentine assisted 150 males and 100 females.

Targeted Host Organization: Agriculture and Agro-industries Technology Center (ATC)

Recommendations: The volunteer recommended changing wash water more frequently, to use two thousand liter troughs, and to wash the tomatoes in the first tank until the water gets dirty. He then recommended to transfer the tomatoes to a second tank for a second rinse in clean water or to use a hose to spray the tomatoes after the first wash to remove the loose dirt. He recommended that when the first tank gets dirty, to replace it with clean water and to use the other tank for the initial removal of dirt. The volunteer also recommended elevating tomatoes off the ground during the drying process to improve circulation around them.

Monitoring and Evaluation Follow-up, Diane Griffin, 03/10/2013 – 03/22/2013:

Assignment Description: FAODA requested a follow-up workshop assignment on implementing the results-based M&E system. The assignment continued on a previous assignment that focused on providing an introduction to M&E. The VC conducted a three-day workshop for FAODA staff building on the previous volunteer's training to retain the M&E System in the host organization. Ms. Diane Griffin also worked with Nahdat Beni-Suief foundation to build their M&E system. The VC conducted a four-day workshop on M&E planning and systems attended by eight of the staff members. During this assignment, the volunteer Diane Griffin assisted six males and eight females.

Targeted Host Organization: Fayoum Agro Organic Association (FAODA) and Nahdat Beni-Suief Foundation

Recommendations: The volunteer recommended that the host have a follow-up training on the specifics of monitoring for results such as designing M&E tools, establishing data collection, analysis, and reporting guidelines, etc. in order to improve the capacity of the host to be effective program managers and ensure sustainability

Grapes Cold Chain, Mohamed Abdel Rahman, 03/13/2013 – 03/29/2013:

Assignment Description: Two associations working with the GDA project as well as ACDA requested an expert in cold chain. El-Mataana and Asfoun association hosted the volunteer for one week and the second week was spent with ACDA. During his time, the volunteer provided technical staff training on implementing an adequate upgrade of the cooling and pre-cooling chain facilities in order to ensure the value and quality of products. The VC provided information on Good Agricultural Practices (GAP) as well the Good Handling Practices (GHP) and assisted in the design and structuring of the cold chain diagram/process and procedures in respect to harvesting, handling, logistics,

environment and packing houses facilities. During this assignment, the volunteer Mohamed Abdel Rahman worked with ACDA and two associations they serve in Upper Egypt. As a result, 35 men and were assisted.

Targeted Host Organization: Agricultural Community Development Association “ACDA”; El-Mataana Association; Asfoun Association

Recommendations: The volunteer only recommended conducting more seminars on post-harvest physiology and the handling of grapes in all major grape growing areas.

Grape Production Specialist, Frantz Claude Ventre, 03/17/2013 – 03/30/2013:

Assignment Description: ACDA requested a VC to enable their member and beneficiary grape growers to reach a higher income by efficiently producing high quality grapes for export. The VC visited 13 farms and conducted a seminar with the farms’ owners and staff to present his observations and major recommendations during his field visits. During this assignment, the volunteer Frantz Ventre assisted 50 males and trained 9 males.



Volunteer Frantz Ventre during his visit to table grape farms in Minya, Upper Egypt

Targeted Host Organization: Agricultural Community Development Association “ACDA”

Recommendations: The volunteer recommended replanting with a rootstock for better coloring on red grape varieties, improving spraying calibration to make sure that the accurate quantity of product is applied to the vines, making a soil analysis to optimize the fertilization program. He recommended that some of the vines could have the arms of the cordon extended or renewed to improve the quantity and quality of the fruit, that using a different type of cover crop might improve vigor of the vines and that drilling a deeper well might allow for better quality water.

Greenhouse Production Technology Follow-up, Cathryn Kloetzli, 03/29/2013 – 04/13/2013:

Assignment Description: The GDA project requested a VC to provide five associations in Upper Egypt and Delta with additional training on efficient management, increased profitability and better operation of their greenhouse facilities. During this assignment, the volunteer Cathryn Kloetzli followed up the activities completed by Matilde D’Urzo in her assignment “Greenhouse Production Technology” the volunteer Cathryn Kloetzli assisted 16 males from the mentioned associations and cooperatives.

Targeted Host Organization: West Nubaria Cooperative; AlAml Agricultural Cooperative; Almoustaqbal Association (El Selsela); Bangar Al-Sokar Cooperative; El-Hekma Association

Recommendations: The volunteer recommended cleaning the mister heads to make sure that they are not blocked by any debris and are able to water the seedling trays uniformly. She recommended that treated seeds (tinged in blue to indicate the application of a fungicide) should be handled with plastic gloves. Also, she recommended allowing trays another day or so under the plastic to germinate, keeping the inside and area immediately around the high tunnel free of weeds, and grouping trays of similarly sized seedlings together. Finally, the volunteer recommended that in the greenhouse, the farmers group together seedlings that are similarly sized as they will have similar water needs.

Floriculture Production Improvement, Damien Connaughton, 03/29/2013 – 04/12/2013:

Assignment Description: UPEHC requested a VC to improve the capacity of flower producers to efficiently produce high quality flowers for export markets. The VC reviewed the major problems confronting the growers and conducted a seminar to cover best practices to overcome these challenges. During this assignment, the volunteer Damien Connaughton assisted eight males and one female.

Targeted Host Organization: Egyptian Union of Producers and Exporters of Horticultural Crops (UPEHC)

Recommendations: The volunteer recommended continuing on-site programs of IPM using beneficial biological insect control, continuing the use of Vermicompost and the development of a possible demonstration pilot program to educate other farms and farmers about Vermicompost. He also recommended using yellow and blue “sticky” traps to monitor pest populations inside greenhouse and replacing them as necessary. He recommended using plastic drip tape as strapping over the outside of the greenhouse to minimize flapping, or ballooning effect on greenhouse plastic cover, and building a screened or solid entry door chamber with sliding or self-closing doors.

Handicraft Marketing, Nancy Bergau, 04/05/2013 – 04/19/2013:

Assignment Description: FAODA requested a VC to maximize the productivity and profitability of rural families, especially women, by enhancing their capacity to efficiently produce nontraditional high quality weaving products such as Christmas ornaments from palm leaf, a hat based on basketry techniques, an envelope shaped weaving for textile packaging, and palm leaf tray. The VC conducted training sessions for FAODA beneficiaries. During this assignment, the volunteer Nancy Bergau assisted five males and 115 females and trained 95 females.



Female villagers spinning palm fronds, under the direction of volunteer Nancy Bergau

Targeted Host Organization: Fayoum Agro Organic Association (FAODA)

Recommendations: The volunteer recommended that the host proactively search for new clients via the internet. She recommended increasing regular contact with potential and past clients by way of periodic newsletters or blogs that also provides beneficial information. She also recommended adding interesting information to their website, such as success stories, with participant comments and narratives. Lastly, she recommended FAODA to develop products focused on the specific needs or

'tastes' of potential clients, i.e. organizations like National Geographic, Audobon Society, museum shops etc., and monitor trends on

the internet and adapt designs to be consistent with them.

Strawberry Production, Harvesting and Post-Harvest, Ross Hayes Penhallegon, 04/14/2013 – 04/26/2013:

Assignment Description: Strawberry post-harvest losses are high in Egypt, mainly due to improper farming practices, mishandling, spoilage and pest infestation. GITTC requested a VC to address losses in their client farmers strawberry production and enhance the farmers' capacity to efficiently produce high quality crops. The VC developed handouts and a PowerPoint presentation for a seminar, in which he presented best practices on a variety of different subjects including variety selection, irrigation, insect and disease control, soil and fertilization, and packaging. During this assignment, the volunteer Ross Hayes Penhallegon assisted 195 males and 24 females

Targeted Host Organization: Grants, Innovation, Technology, Transfer Center (GITTC)

Recommendations: The volunteer recommended testing the plants and water for phytophthora and trying to find pheromone traps, thus helping to monitor the adult form of insects and reduce the spraying of pesticides. The volunteer also recommended that the organic matter used to rejuvenate the soil needs to be composted to 60 degrees. He recommended that the laboratory of Alexandria University should be running at its full capacity given the needs from the field, that the link between the laboratory and the landowner should be the field technical person (such as an extension worker), and that it is absolutely essential to make use of this laboratory due to its role in helping landowners make better (fertilizer purchase) decisions.



Volunteer Ross Hayes Penhallegon inspects strawberries at a farm in Ismailia governorate

Cherry Tomato Production, James Edward Neibauer, 04/19/2013 – 05/01/2013:

Assignment Description: Many of Egypt's cherry tomato growers have never had access to regularly scheduled production training. Lack of information about the modern techniques of cherry tomato production negatively affects farmer's productivity and profitability. The objective of the assignment was to assist Egyptian cherry tomato growers to improve produced tomato yield, quality, harvesting, and postharvest handling in order to maximize their exports and consequently increase farmer incomes. The VC prepared informational material and held a seminar for farmers on cherry tomato seedling production, transplanting, irrigation, soil fertility management, crop protection from diseases and pests, harvesting and post-harvest handling. The volunteer James Edward Neibauer visited a commercial Farm (Technogreen) and three smallholders farms and assisted 21 males and trained four males.

Targeted Host Organization: Grants, Innovation, Technology, Transfer Center (GITTC), West Noubaria Rural Development Project (WNRDP) Lab

Recommendations: The volunteer recommended choosing chemicals that are capable of controlling multiple pests, sanitizing the seedling trays that are being used for tomato cutting propagation, and using sticky yellow traps that can assist in determining when whitefly and leaf miners (*Tuta absoluta*) have infested the greenhouse. He recommended also monitoring plant nutrition at various stages of growth using plant sap tissue tests and a Cardy Meter for nitrogen, and removing all trash and live plant material from greenhouses to avoid carryover of insect pests.

Potato Production, William Campbell, 04/19/2013 – 05/03/2013:

Assignment Description: UPEHC requested a VC to work with the UPEHC beneficiary farmers, staff and members to maximize the productivity and profitability of potato growers by increasing the quality of their crops. The VC visited seven farms and conducted a seminar at UPEHC with staff and farm owners to demonstrate his findings and recommendations. During this assignment, the volunteer William Campbell assisted 49 males and two females.

Targeted Host Organization: Egyptian Union of Producers and Exporters of Horticultural Crops (UPEHC)

Recommendations: The volunteer recommended using a mixture of 10% chlorox and 90% water to soak spouts for 1-2 minutes and using a dammer diker to reduce puddling. He also recommended that the farmers should add more Nitrogen to the irrigation water, as the petiole test is not available, and that they should follow the pre-plant soil nutrient testing.

Modern Irrigation Management, Mike Gangwer, 05/04/2013 – 05/17/2013:

Assignment Description: UPEHC requested a VC to optimize water use and enhance the small farmers' capacity to produce more marketable yields per each unit of water consumed. The VC visited three large vegetable farms in the Delta and Alexandria desert road, as well as with key specialists, local extension agents and the EBDA technical staff members. During this assignment, the volunteer Mike Gangwer assisted 55 males and six females.



Volunteer Mike Gangwer visits smallholder citrus farmers in the Noubaria district

Targeted Host Organization: Egyptian Union of Producers and Exporters of Horticultural Crops (UPEHC)

Recommendations: The volunteer recommended that the managers of West Noubaria Rural Development Project (a member organization of UPEHC) need to do survey or census of the physical and environmental terrain and develop a program for ongoing sampling of soil and water used for supplemental irrigation. The volunteer also recommended that another one of UPEHC's member organizations, the Coptic Evangelical Organization for Social Services CEOSS (should have soil data that includes the physical and chemical properties of soil and water analyses of the irrigation water sources. He recommended to optimize water use to enhance the small farmers' capacity to produce more marketable yields per each unit of water consumed. Lastly, he recommended applying the fertilizer recommendations provided by the extension department in Egypt.

IPM for Citrus, Jennifer Gillett-Kaufman, 04/19/2013 – 05/03/2013:

Assignment Description: Citrus growers in Egypt often rely on merely traditional knowledge of pest and nematode control for their crops and do not have the knowledge of modern pest management. UPEHC requested a VC to provide its members citrus growers in Delta and Alexandria desert road the required training in integrated pest management to enable them to produce higher quality products and reduce loss. The VC reviewed the pests threatening the farmers crops (including fruit flies, mites and scales) and provided a seminar on nematodes control, organic fertilization, and weed control. During this assignment, the volunteer Jennifer Gillett-Kaufman assisted 62 males and two females and trained 36 males and seven females.

Targeted Host Organization: Egyptian Union of Producers and Exporters of Horticultural Crops (UPEHC)

Recommendations: The volunteer recommended using pheromone traps and yellow sticky traps to detect and capture new exotic pests including adult psyllids. She highlighted the importance of properly controlling weeds, which compete with the citrus trees, particularly young trees, for water, nutrients, and sunlight and may ultimately increase pest and disease problems. The volunteer also recommended pruning trees to avoid crowding, optimize flowering, increase yield, and improve fruit quality. She recommended that the citrus budwood certification program in Egypt would help to control graft transmitted diseases and prevent the introduction of new diseases into Egypt. She recommended that Egyptian citrus growers and nurserymen should experiment and try more citrus rootstocks such as Smooth Flat Seville and Kinkoji as substitutes for sour oranges, Sun Chu Sha as a substitute rootstock for tangerines, and US-812 as a substitute rootstock for oranges.

Fruit Tree Nursery Management, Robert E. Call, 05/06/2013 – 05/24/2013:

Assignment Description: UPEHC requested a VC to help its members and beneficiary fruit tree growers in Delta and Alexandria desert road to improve their nursery management systems and apply

proper propagation techniques. The VC visited six farms and conducted a seminar in UPEHC to demonstrate his findings and recommendations. During this assignment, the volunteer Robert Call assisted 32 males and 12 females.

Targeted Host Organization: Egyptian Union of Producers and Exporters of Horticultural Crops (UPEHC)

Recommendations: The volunteer recommended applying an imidacloprid systemic insecticide and ProGibb to 'Crimson' seedless table grapes a week or two earlier than the current practice to cause small grapes in clusters to abort. He recommended the use of the applications of AgriStrep antibiotic for Fireblight on pears and to keep taking annual soil samples and send them for testing.

Peanut Production, Enos William Rogister, 05/10/2013 – 05/24/2013:

Assignment Description: High labor and production cost for peanuts in addition to the lack of information on best farming practices negatively affect the productivity and profitability of peanut growers in Egypt. The USAID-funded GDA project requested a VC to work with its beneficiaries, El-Hekma Association and AlAml Agricultural Cooperative in Upper Egypt and West Noubaria Rural Development Project (WNRDP) Lab requested a VC to work with its beneficiaries from the peanut small growers in Delta to provide training on modern techniques in peanut production to allow for a higher volume of good quality peanuts while maintaining high soil fertility. The VC introduced new techniques and tools for use in peanut production to allow the farmers to increase production to meet the local and export market demands. During this assignment, the volunteer William Rogister assisted and trained 70 males.

Targeted Host Organization: El-Hekma Association; AlAml Agricultural Cooperative; West Noubaria Rural Development Project (WNRDP) Lab

Recommendations: The volunteer recommended conducting on-farm research (tests) of basic production practices, to encourage farmers to see and participate in the test plots, to share the results with farmers to help them understand the potential for better yields, quality and profit. He recommended to establish a user friendly system for providing inputs (excellent seed, fertilizer, pesticides, equipment) needed to produce the best peanuts. He recommended to create an efficient system for marketing high quality peanuts that will allow for fair returns for growers and safe products for consumers. Lastly, he recommended farmers to test the soil to determine fertility levels and the specific fertilizers appropriate.

Stone Fruit Production, James Kamas, 05/17/2013 – 05/31/2013:

Assignment Description: Lack of knowledge about GAP for stone fruits, negatively affects the productivity and profitability of UPEHC members and beneficiary stone fruit growers in Egypt.

UPEHC requested a VC to recommend best practices in the areas of pruning, training, irrigation and fertigation, and pest and weed control for stone fruit growers including peach, apricot and plum growers. During this assignment, the volunteer James Kamas assisted 44 men and one woman.



Volunteer James Kamas conducts field visits with two farm engineers in the Delta region

Targeted Host Organization: Egyptian Union of Producers and Exporters of Horticultural Crops (UPEHC)

Recommendations: The volunteer recommended addressing nutrient rate and application through the use of visual canopy analysis and tissue, confirming disease diagnosis and conducting workshops to teach cultural and chemical control, conducting experiments on the proper timing of pomegranate stem borer and pear, and conducting canopy management workshops to demonstrate both dormant and winter and summer pruning. He also recommended conducting water placement workshops for orchards and vineyards to increase water, and directing away water placement from the crown of the plant and to areas of feeder root growth.

Table Grape Production, Justin Scheiner, 05/17/2013 – 05/31/2013:

Assignment Description: Small grape growers in Egypt lack information to efficiently produce quality grapes for export. GITTC requested a VC to work with grape farmers from its beneficiaries to address the obvious need to introduce non-traditional production techniques to enable farmers to efficiently produce quality grapes for export. The VC visited grape vineyards to assess farmers limiting constraints in productivity and held a seminar to recommend best farming practices in the areas of fertigation, soil management, crop protection and weed control to address the constraints. During this assignment, the volunteer Justin Scheiner assisted 56 males and trained 12 males.

Targeted Host Organization: Grants, Innovation, Technology, Transfer Center (GITTC)

Recommendations: The volunteer recommended applying ethephon at 200 ppm first and if needed, apply 200 ppm one to two weeks later. He recommended shoot positioning and leaf and lateral removal beginning at the fruit to encourage light penetration, reducing the nitrogen two to three weeks before bloom by half and continuing until after the berries set. He recommended using fungicides that have been tested on rots in red globe and only applying as needed. The volunteer also recommended that the Iprodione is effective against rots as well as Pyraclostrobin + Boscalid (Pristine), using the two possible ways to harvest early (1) cover the vineyards with clear plastic beginning in December to encourage early budbreak and rapid growth (2) prune and apply Dormex one to two weeks earlier than usual and leaf/lateral shoot removal at the start of veraison to enhance coloring.

Modern Irrigation Management, Mike Gangwer, 06/15/2013 – 06/28/2013:

Assignment Description: Many farmers continue to utilize traditional irrigation systems (e.x. flood irrigation in furrows) and those who have installed drip irrigation systems do not know how to operate and maintain them efficiently and often have improperly designed or installed systems. West Noubaria Rural Development Project (WNRDP) Lab requested a VC to help its beneficiary small farmers to optimize water use and improve their capacity to produce more marketable yields per each unit of water consumed. Based on site visits, the VC made recommendations on improved water productivity management programs, including drip irrigation, drainage systems, crop water capacity, and irrigation scheduling. During this assignment, the volunteer Mike Gangwer assisted 110 males and 20 females.

Targeted Host Organization: West Noubaria Rural Development Project (WNRDP) Lab

Recommendations: The volunteer recommended that the person responsible for irrigation within the Ministry and within the WNRDP should make use of all tools and develop a program for water application scheduling, optimizing water use and ultimately enhancing the small farmers' capacity to produce more marketable yields per each unit of water consumed. Additionally, he recommended applying the fertilizer recommendations provided by the ministry of agriculture and the extension departments in Egypt.

Biological Control, Michael Lachance, 06/15/2013 – 06/28/2013:

Assignment Description: Harmful insects including sucking aphids, red spiders and white fly significantly reduce crop yields, increase production costs and negatively affect the quality of crops. Biological control methods such as the use of predators and insect parasites can improve the quality of

crops, protect ecosystems and reduce production costs; however, not all vegetable growers are familiar with these practices. As a result, GITTC and EBDA requested a VC to improve vegetable growers' access to appropriate biological controls, in accordance with EBDA requirements. The VC worked with each host organization for a one-week period, he made recommendations on predators, biocides, parasitic and pathogenic organisms that can be reproduced to control the pests threatening the farmers' fields. During this assignment, the volunteer Michael Lachance assisted 63 males and 4 females and trained 58 males and one female.

Targeted Host Organization: Grants, Innovation, Technology, Transfer Center (GITTC); Egyptian Biodynamic Association (EBDA)

Recommendations: The volunteer recommended developing educational materials and curricula for continuing education of farm managers, pest control managers (agricultural engineers) and the general work force on biological control. He recommended conducting systematic evaluations of commercial products and having services available for biodynamic and organic food production in Egypt. He recommended encouraging expansion of biodiversity on farms to provide food and shelter to natural control agents against insects and mites, encouraging advanced field research projects for college and post graduate students to better describe and understand insect pests and their benefits, Lastly, he recommended establishing an organization of pest control professionals in Egypt to share non-proprietary information through annual meetings and publications.

Egypt: Livestock and Dairy

Technical Feasibility Study for Establishing Milk Collection Centers, Corine Quarterman, 11/10/2012 – 12/14/2012:

Assignment Description: ABWA, Nahdet BaniSuif Foundation and DEFINO Association requested a VC to implement a technical feasibility study for establishing milk collection centers. Bani-Suief and Minya governorates, with an estimated population of over 4 million, have a high demand for milk and milk products. In order to increase the income of small dairy farmers who sell their raw milk for low prices and in order to improve the quality of dairy products, the VC did a detailed feasibility study on establishing Milk Collection Centers (MCC) for ABWA, Nahdet BaniSuif Foundation and made an operation assessment for Definnno's MCC. During this assignment, the volunteer Corine Quarterman assisted 10 males and two females and trained six males and one female.

Targeted Host Organization: Nahdat Beni-Suief Foundation; Assuit Business Women association; Definnno

Recommendations: The volunteer recommended the three host organizations keep records for their members and beneficiary small farmers to maintain the confidence of the collectors. She also recommended specific feeding mixes and nutrients, and the importance of finding a breeder with an excellent reputation in the raising of mixed breeds for the collection center to use. She recommended the for record keeping purposes, that the collection center's manager's office needs to be connected with a sliding glass window to the receiving area

Manure Composting, Jeff Cage, 11/30/2012 – 12/20/2012:

Assignment Description: Volunteer Jeff Cage worked with two different host organizations, EBDA for the first week and GITTC for the second week. With both hosts, the volunteer taught representatives of member livestock farmers how to treat wet manure to produce dry, odorless, and safe organic fertilizers that can be used in crop production. The volunteer assisted and trained 15 males and two females.

Targeted Host Organization: Egyptian Biodynamic Association (EBDA); Grants, Innovation, Technology, Transfer Center (GITTC)

Recommendations: The volunteer recommended adding Gypsum to the manure piles to reduce the PH level and increase the nitrogen percentage of the finished product. He also recommended adopting a turned window system for 24 hours/week. He recommended adding Gypsum to piles to reduce the PH

and increase the nitrogen percentage of the finished product. Additionally, he recommended that the mix bulk density needs to be lower for more circulation.

Animal Health Care, Diego Caledron, 03/22/2013 – 04/05/2013:

Assignment Description: Lack of preventative health care programs in small dairy farms leads to high morbidity and mortality rates which results in low productivity, profitability, high incidence of infertility problems and high treatment cost. Nahdat Beni-Suief Foundation requested a VC for the associations under its umbrella in Upper Egypt to increase its beneficiary small dairy farmers' productivity and profitability by minimizing morbidity and mortality rates. Nahdet Bani-Suief Foundation currently runs a loan portfolio and gives the animal to their beneficiaries. The VC visited seven associations, 19 small farmers and trained veterinarians from five governorates. During this assignment, the volunteer Diego Caledron assisted 47 males and 11 females.

Targeted Host Organization: Nahdat Beni-Suief Foundation

Recommendations: The volunteer recommended adopting a policy or prerequisite to have the farmer "prepare" an ideal space for the livestock, before receiving any animals from the Nahdet Bani-Suif Foundation. He recommended that the Foundation can take a more assertive approach and start an artificial insemination program with the loaned heifers, using Jersey semen, and the establish a basic training for the new loan candidates, with the basic concepts of hoof trimming; ventilation; nutrition; and animal welfare. Also, he recommended that the Foundation should collaborate with some of the farm associations or some of the large holder farmers to fine tune good silage practices and nutritional analysis of the available crops that are being use as feed and based on the results; determine recommendations for balance rations appropriate for the small holders.

Animal Reproduction, Wendy Rapp (Flatt), 05/06/2013 – 05/22/2013:

Assignment Description: Lack of efficient reproduction management in cattle and buffalo dairy farms leads to high incidences of infertility problems, prolonged calving intervals and consequently great economic losses. GITTC and West Noubaria Rural Development Project (WNRDP) Lab requested a VC to minimize the economic losses resulting from improper reproduction management practices



Volunteer Wendy Rapp works with GITTC extension agents at a dairy farm in Bani-Suif governorate

among their beneficiaries. The VC visited 6 medium and large farms and met with 3 small farms owned by smallholder farmers to make recommendations on best practices in the areas of reproduction management—with a special focus on the ideal age and body weight for breeding, accurate and efficient heat detection, ideal insemination techniques, and the management of reproductive disorders and diseases. She conducted a seminar in Alexandria University attended by the University professors, and students and farms owners to demonstrate her findings and recommendation. During this assignment, the volunteer Wendy Rapp assisted 53 males and 17 females and trained 23 males and 10 females.

Targeted Host Organization: Grants, Innovation, Technology, Transfer Center (GITTC); West Noubaria Rural Development Project (WNRDP) Lab.

Recommendations: The volunteer recommended conducting more field demonstrations with farmers to show them how to best make silage and haylage for their dairy herds. She made recommendations on ways to change rations for the summer to decrease heat stress. The VC also recommended that the government and the university should start working in cooperation to help producers find alternatives for feedstuffs that would be more affordable. Lastly, She stressed the importance of building

partnerships between the University of Alexandria and other agriculture colleges in Egypt and the US university extension system as it would be helpful to producers in Egypt.

Meat Processing Technology, Roger L. Dreyer, 06/01/2013 – 06/14/2013:

Assignment Description: GITTC requested a VC to enhance the capacity of local meat processors to produce high quality, clean and safe processed meat products. The VC met with three Delta region to assess their technical assistance needs and ultimately design a practical training program. The training program included how to develop new products, how to regulate meat processing conditions and proper hygiene precautions, and best practices in packaging and labeling. The VC conducted two seminars in Agricultural research institute in Cairo and the Food Technology Dept. in Alexandria University; the two seminars were attended by Professors, researchers, students and processors. During this assignment, the volunteer Roger L. Dreyer assisted 64 males and 47 females.

Targeted Host Organization: Grants, Innovation, Technology, Transfer Center (GITTC)

Recommendations: The volunteer recommended testing for total plate count and to track bacteria improvements. He also recommended that local processing plants consider using an Anyl Ray machine to determine fat/lean ratios on a short time basis, a fat analyzer, and developing a program to measure the quality of the job performed by the slaughter provider.

Egypt: Flexible

Organic Fertilization Management for Vegetables, Hannah Schrum, 10/15/2013 – 10/25/2013:

Assignment Description: GITTC and Egyptian Biodynamic Association (EBDA) requested a VC to help them to maximize the production of organic vegetable crops for their members and clients. During this assignment, the volunteer Hannah Schrum assisted 20 males from the beneficiaries of GITTC and EBDA.

Targeted Host Organization: Grants, Innovation, Technology, Transfer Center (GITTC); Egyptian Biodynamic Association (EBDA)

Recommendations: The volunteer recommended reducing the amount of compost applications (in form of compost tea and “biofert”) to crops after they have been planted and beginning immediately to incorporate a diversity of cover crops in any barren or vacant field space, replacing the current seed source with the natural seeds (without fungicide coating). She recommended that a sterilizing environment is needed during grafting to prevent infection during the healing of the graft and the cutting blades must also be sterilized frequently between grafts, and kept as sharp as possible

Beekeeping Specialist, Overwintering Bees, James G. Miller, 11/25/2012 – 12/09/2012:

Assignment Description: The Union of Arab Beekeepers requested VC to help their beekeepers significantly reduce or eliminate the losses in their apiaries during winter, through the use of the most appropriate winterizing techniques and strategies. The VC met with local beekeepers in the Gharbia and Alexandria governorates to identify common problems and assisted in the establishment of an appropriate apiary overwintering program. During this assignment, the volunteer James Miller assisted 5 males and 1 female and trained 5 males and 1 female.

Targeted Host Organization: Union of Arab Beekeepers

Recommendations: The volunteer recommended allowing the heated moist air to escape the hive and removing the infected frames and burning them. He also recommended using the Integrated Pest Management (IPM) method to determine if the hive is healthy, using essential oils mixed with sugar water and feed twice a year, making sure the honey bees are hygienic to reduce the development of varroa mites, and introducing Thymol into the bees diet to reduce the development of varroa mites.

Interpersonal Communications, Behavioral Dynamics, and Conflict Management Specialist, Edward Doherty, 11/29/2012 – 12/13/2012:

Assignment Description: GITTC requested a VC to help the host organization’s staff, beneficiaries, and clients develop collaborative problem solving skills, effective organizational systems, and conflict

management skills to increase job performance and a better working environment. The VC conducted a three-day training course on interpersonal skills, behavioral dynamics, and conflict resolution skills for each host organization. During this assignment, the volunteer Edward Doherty assisted 9 males and eight females and trained six males and one female.

Targeted Host Organization: Grants, Innovation, Technology, Transfer Center (GITTC); Assuit Business Women association

Recommendations: The volunteer recommended GITTC to develop a brief feedback tool for staff to use at the end of a meeting with a business client to collect information. He also recommended GITTC to develop and adopt an organization development tool to accompany their existing focus on human resource development

Bee Honey Packaging and Labeling Specialist, Hany Khalil, 12/26/2012 – 01/07/2013:

Assignment Description: The Union of Arab Beekeepers requested a VC to promote consumer acceptance of the locally produced bee honey in both domestic and global markets. The VC met with the beekeepers and local beekeeping specialists and assisted in the development of a cost effective, environmentally friendly and consumer appealing packaging and labeling system for the host's products. During this assignment, the volunteer Hany Khalil assisted 12 males and 4 females and trained 17 males and 4 females.

Targeted Host Organization: Union of Arab Beekeepers

Recommendations: The volunteer recommended exploring the feasibility of developing a vocational training program in order to prepare young men and women to support the food industry in Egypt, considering closures with dispensing function for honey packaging, and considering developing a proprietary mold for glass and/or plastic jars that would help UAB develop a brand identity. He also recommended that the UAB consider changing the current heat-shrink tamper-evident ring to a clear one and that they segment the market and develop different packages for different customers. He also recommended they use marketing as a way to increase sales and help the community at large, considering alternative markets for honey (healthy snack for school- age children), improving the sanitation at the honey packing plant, and considering modernizing the instruments used at the honey testing lab.

Monitoring and Evaluation for Associations, Diane Griffin, 01/12/2013 – 01/25/2013:

Assignment Description: FAODA requested a VC to enhance the association's organizational capacity, their ability to make informed decisions and their monitoring and evaluation system. The VC conducted training workshop for 10 board members and staff of FAODA on M&E essentials, the evaluation methodology and indicators, data collection tools, data analysis and reporting best practices. During this assignment, the volunteer Diane Griffin assisted three males and seven females.



Volunteer Diane Griffin conducts a workshop with FAODA staff in Fayoum governorate

Targeted Host Organization: Fayoum Agro Organic Association (FAODA)

Recommendations: The volunteer recommended that there is no way to move to results based M&E system without the foundation of a basic traditional M&E system. Additionally, she recommended that in order to improve the capacity of the host to be effective program managers and ensure sustainability, FAODA must work through the roles and responsibilities of the government, the other development organizations. She also recommended that FAODA design specific M&E tools to establish data collection, analysis, and reporting guidelines. She recommended that management

designates who is responsible for which M&E activities and establish the appropriate timelines and costs associated with the activities.

Aquaculture, Roger Palm, 03/01/2013 – 03/05/2013:

Assignment Description: Aquaculture in the Idku region is utilized by both large and small fish farms on/in Lake Idku, which is both suffering from and causing environmental degradation. Idku (or Edku) Lake has become brackish and salinity is rising steadily as a result of agricultural run-off as well as the inflow of salt water. As a result, the British Gas-Farmer Group requested a VC to undertake a comprehensive survey of the aquaculture sector in the Idku region and ultimately to assist in establishing an efficient production system by recommending best production practices and an improved resource management program including pond construction, renovation, and fish breeding. . During this assignment, the volunteer Roger Palm assisted 15 males.

Targeted Host Organization: British Gas-Farmer Group

Recommendations: The volunteer recommended that the host should work with the most successful fishmongers and commercial fish farmers to identify the best export marketing avenues, and develop strategies with the farmers to maximize the prices they get for their production. He recommended that the host lead an effort to substantially reduce the cost of fish feed while maintaining the characteristics and nutritional elements that are crucial to the production of high quality tilapia and mullet. He also recommended working with the local and national government agencies to improve critical aspects of the water quality through improved regulations and enforcement. He recommended that BG farmer group should hire a regional extension agent who has extensive aquaculture knowledge and experience.

Modern Beekeeping Practices, Kris Fricke, 04/18/2013 – 05/03/2013:

Assignment Description: Poor beekeeping techniques, high population of bee colonies in a limited cultivated area, lower quality of queens, pests, inadequate feeding practices, diseases, pests and bee poisoning with pesticides are the main problems facing beekeepers in Egypt. The Union of Arab Beekeepers requested a VC to address these various issues and enable their beekeepers to produce high quality, clean, and chemical free honey for export. The VC held a seminar recommending best practices in the areas of bee colony management, supplementary feeding, queen rearing and honey extraction in addition to identification



Volunteer Kris Fricke works with beekeepers in an apiary in Minya governorate

and control of pests and diseases using the least hazardous chemicals that have no residual effect on the produced honey. During this assignment, the volunteer Kris Fricke assisted 90 males and nine females,

Targeted Host Organization: Union of Arab Beekeepers

Recommendations: The volunteer recommended allowing hives to grow to a size greater than one box and maintaining them at that strength to increase their survivability versus diseases and pesticides, as well as increase the honey yield per hive (and honey yield vs input costs)/He recommended trying to avoid putting more than 100 hives in an area, using organic treatments that can be very effective, such as (using drone cells to trap the mites, powdered sugar dusting, and stickyboards). He recommended the implementation of IPM, the monitoring of mite loads and targeted treatment at the times of greatest effect/need to save time and money and increase hive survivability and productivity, and treating prophylactically with teramyacin or tylon to prevent American Foulbrood .

Aquaculture Production Follow-Up, Joseph Sullivan, 04/19/2013 – 05/10/2013:

Assignment Description: British Gas-Farmer Group requested a VC for a three-week assignment; to follow-up on the implementation of recommendations from a previous aquaculture assignment with volunteer Roger Palm. During this assignment, the volunteer implemented a comprehensive assessment of the aquaculture sector in the Idku region and to address issues of environmental degradation of Lake Idku, including the collapse of its associated fisheries. The volunteer reviewed the environmental issues facing Lake Idku and made recommendations for restoration and mitigation actions. During this assignment, the volunteer Joseph Sullivan assisted 20 males and trained two males.

Targeted Host Organization: British Gas-Farmer Group

Recommendations: The volunteer recommended that the water quality needs to be addressed in light of biological productivity and toxicology and a team needs to be developed that can design a comprehensive ecosystem suite of studies that looks the important factors that affect the Lake Idku and Abu Qir Bay fisheries. He also recommended conducting a comprehensive ecosystem study of Lake Idku focusing on those factors which lead to enhancement or decline of its capture fisheries, gathering Satellite data among others by those knowledgeable in GIS systems.

Queen Rearing, Garrett Dodds, 05/18/2013 – 05/31/2013:

Assignment Description: Inadequate queen breeding practices, lower quality of queens, undesirable bee traits, and weak colonies are common problems that beekeepers face. The Union of Arab Beekeepers requested a VC to look at these different issues and present a seminar on modern equipment and methods for queen rearing, shipping queens, and introducing new queens. During this assignment, the volunteer Garrett Dodds assisted 41 males and nine females and trained 13 males and eight females.

Targeted Host Organization: Union of Arab Beekeepers

Recommendations: The volunteer recommended that the beekeepers make larger splits when dividing colonies instead of two or three frame splits to try five frame splits. He also recommended adding more equipment to the colonies so that a queen can easily lay in a full box. He recommended that every colony that has the desired genetics in the apiary should have at least half a frame of drone comb for the queen to produce drones so that the area will be saturated with drones providing the desired genetics.

Food Safety and Security, Barakat Mahmoud, 05/24/2013 – 06/08/2013:

Assignment Description: GITTC requested a VC to enhance the capacity of its beneficiaries from the farmer associations in Upper Egypt to produce safe agricultural products with less contamination of chemicals and microorganisms, which will ultimately enable them to acquire the GAP certification to market their members' crops to processors, exporters and eventually fresh markets. The VC met with the different farmer associations' board members and management staff to assess their understanding of the food control system and safety and helped develop and begin to implement a rigorous training program in food safety, security and GAP. Also he conducted training workshops in the Food Technology and Research Institute (FTRI) in Cairo and visited Johaina company for dairy products in Asyut governorate. During this assignment, the volunteer Barakat Mahmoud assisted and trained 82 males and 71 females.

Targeted Host Organization: Grants, Innovation, Technology, Transfer Center (GITTC)

Recommendations: The volunteer recommended implementing Good Manufacturing Practices (GMPs) and Hazard Analysis Critical Control Point (HACCP) programs, providing regular food safety training to the workers/mangers, and establishing standard operating Procedure (SOP) for each step. He recommended that in the process from receiving the raw materials to shipping the final products to the distributors, the associations should pay great attention to the worker health and hygiene, and establish food safety program.

LEBANON

Table 2: Lebanon Assignments by Sub-sector

Volunteer Name	Assignment Title	Host	Assignment Dates	Total Days
Horticulture				
Henry Fredrick Garcia-Alvarez	Production of medicinal, edible, aromatic plants and its byproducts	Green Hand	09/21/2012 - 10/05/2012	15
Luis Manrique	Urban Agriculture and Landscape Expert	American Near East Refugee Aid (ANERA)	12/07/2012 - 12/20/2012	14
Alex Stainburn	Agricultural Transportation and Export Alternatives Study	Chamber of Commerce, Industry and Agriculture of Zahle and the Bekaa	01/05/2013 - 01/21/2013	17
David I. Wagner	Business Development Plan for a Herb Farm at RCED	Beirut Arab University (BAU) - Research Center for Environment and Development (RCED)	02/05/2013 - 02/25/2013	21
Rafael Aures	Packaging of Fresh and Dry Produce: The Technical and Practical Aspects	American University of Beirut (AUB) – Faculty of Agricultural and Food Sciences (FAFS)	3/16/2013 - 3/23/2013	8
Bruce Harte	Packaging of Fresh and Dry Produce: The Technical and Practical Aspects	American University of Beirut (AUB) – Faculty of Agricultural and Food Sciences (FAFS)	3/16/2013 - 3/23/2013	8
James Correll	Pest and Disease Expert for Greenhouse Growers	Arcenciel; Hariri Foundation; Rene Moawad Foundation; Safadi foundation	05/08/2013 - 05/22/2013	15
Mickey Foley	Mushrooms and mushroom compost Production Expert	FARM FRESH	05/08/2013 - 05/23/2013	16
Mohamad Abdel Rahman	Vegetable Fresh Cut Expert	Rene Moawad Foundation	05/14/2013 - 05/23/2013	10
Yurij Bihun	Juniperus drupacea (Syrian Juniper) research expert	Lebanon Mountain Trail Association	05/14/2013 - 05/26/2013	13
Small Ruminants				
Sergio Espinoza	Kashkaval Cheese Processing	Biomass; Le Bon Lait; The Agricultural Cooperative for Raising Livestock- Saghbeen	12/03/2012 - 12/17/2012	15
Archie Devore	Dairy Cattle Nutrition	ALFA co Trade; Biomass; Chamber of Commerce, Industry and Agriculture of Zahle and the Bekaa; AIDCO; Saint Joseph University - Higher Institute for Mediterranean Agricultural Engineers	12/04/2012 - 12/18/2012	15
Roger Elis	Animal Reproduction-Veterinary Specialist	LibanVet	01/05/2013 - 01/19/2013	15
Barakat Mahmoud	Study on Imported Frozen Meat	Chamber of Commerce, Industry and Agriculture in Saida and the South	01/12/2013 - 01/31/2013	20

Volunteer Name	Assignment Title	Host	Assignment Dates	Total Days
Sergio Espinoza	Assessment for Dairy Plant Equipment and Processing	Lakkis Farms; Skaff Dairy Farm	02/09/2013 - 03/03/2013	23
Daniel Considine	Sheep and Goat Production Expert	The Agricultural Cooperative for Raising Livestock- Saghbeen; Jihad Daher Farm; Group of Farmers- Bar Elias	02/16/2013 - 03/01/2013	14
Gary Geisler	Calf Raising Expert	Khair Al Jarah Farm; Abdullah Khoury Farm; Elie Abu Akil Farm; Toufeek Asouf Farm; Toufeek Slieman Farm; Le Bon Lait; Liban Lait Farm; Coop Livestock Husbandry Forage production & Agro Processing in Akkar m.m.; Feedco Farm	04/17/2013 - 05/01/2013	15
Walter Edward Hylton	Livestock Surgery Expert	LibanVet	04/18/2013 - 05/04/2013	17
Wayne Schoper	Manure Composting Expert	ALFA co Trade	05/05/2013 - 05/17/2013	13
Archie Devore	Dairy Cattle Nutrition Expert	Group of dairy farmers in North Lebanon	05/05/2013 - 05/18/2013	14
John Hooper	Dairy Cattle Hoof Trimming Training	Group of dairy farmers in North Lebanon	05/05/2013 - 05/18/2013	14
Damon A. Szymanski	Dairy Farm Management Expert	Elie Abu Akil Farm	08/17/2013 - 08/26/2013	10
Flexible assignments				
Susie Qashu	Eco-tourism Strategy and Action Plan for Forest Reserve	Horsh Ehden Nature Reserve	11/02/2012 - 11/16/2012	15
Florence Wagner	Community Development Training and Network Establishment of Women's Groups in Bekaa	Beirut Arab University (BAU) - Research Center for Environment and Development (RCED)	02/05/2013 - 02/25/2013	21
Heather Davidson	Educational Interactive models for environmental aspects	Green Hand	02/15/2013 - 02/28/2013	14
Steven Pao	Microbiology and Food Safety	Chamber of Commerce, Industry and Agriculture in Saida and the South	03/02/2013 - 03/15/2013	14
Gary Bullen	Market Expert	Biomass	03/16/2013 - 03/26/2013	11
Susie Qashu	Green Responsible Tourism Strategy and Business/Action Plan	Horsh Ehden Nature Reserve	03/19/2013 - 04/16/2013	29
David I. Wagner	Business Development Plans for Women's NGOs and Cooperatives in Bekaa	Beirut Arab University (BAU) - Research Center for Environment and Development (RCED)	05/24/2013 - 06/21/2013	29
Florence Wagner	Business Development Plans for Women's NGOs and Cooperatives in Bekaa	Beirut Arab University (BAU) - Research Center for Environment and Development (RCED)	05/24/2013 - 06/21/2013	29

Lebanon: Horticulture

Production of Medicinal, Edible, Aromatic Plants and its Byproducts, Henry Fredrick Garcia-Alvarez, 09/21/2012 - 10/05/2012

Assignment Description: The Green Hand, an environmental NGO requested a volunteer consultant to help them establish a protocol for the joint nursery with the BAU for the cultivation of 14 Medicinal, Edible, Aromatic (MEA) plants in the University's nursery. Green Hand and the BAU are partners in the nursery and work together in seedling distribution project for farmers. The nursery is critical for seedling production for people who own land that has not already been cultivated and horticulture farmers who are already cultivating their land as a new ecological cultivation and/or alternative cultivation. Based on this program, these land owners and farmers are provided seedlings from the nursery.

Targeted Host Organization: Green Hand

Recommendations: Henry Garcia-Alvarez assisted Green Hand to establish an efficient production system for MEAs. The VC recommended the host to distil all lower quality herbs not suitable for the fresh or dried herb market. VC provided production data for the MEAs' herbs in addition to demonstrating the "holistic-growing" system applicable to improving the growing environment.

Urban Agriculture and Landscape Expert, Luis Manrique, 12/07/2012 - 12/20/2012:

Assignment Description: American Near East Refugee Aid (ANERA) requested a VC to explore the possibility of expanding their pilot project in Ein el Hewleh Palestinian Refugee Camp in the South (Saida area)—to establish roof top gardens in refugee camps all over Lebanon as additional income generation activity for refugee households. The pilot project focused on the Women's Program Center, as a training center for transferring skills on basic agricultural techniques to camp residents. This assignment as requested to provide practice training to the Women Program Center on roof top horticulture production, so that they can in turn transform their knowledge to the residents of the camp.

Targeted Host Organization: ANERA

Recommendations: Luis Manrique recommended innovative and practical techniques for roof top gardening in the targeted region. The volunteer provided two training sessions to 49 women and 18 men in the camps teaching them how to grow flowers on roof tops with low cost techniques such as using old tires and barrels as growing pots, as well as drip irrigation through the use of old bottles. The recommended techniques included mixing potable water with other water sources, irrigation methods like drip or use of inexpensive, self-watering pots that reduce leaking while improving water use efficiency.

Agricultural Transportation and Export Alternatives Study, Alex Stainburn 01/05/2013 - 01/21/2013:

Assignment Description: The Chamber of Commerce, Industry and Agriculture of Zahle and the Bekaa, requested an agricultural products' logistics volunteer consultant to conduct a transportation study on existing routes, time and possible transit alternatives for fresh fruits, vegetables and processed foods from the Zahle region to the traditional markets in the Arab countries such as Iraq, Saudi Arabia, Kuwait, UAE, Egypt, and Jordan as alternatives to going through Syria via land ground transport.

Targeted Host Organization: Chamber of Commerce, Industry and Agriculture of Zahle and the Bekaa

Recommendations: During this assignment, Alex Stainburn conducted a SWOT analysis of transportation alternatives. The VC provided a brief cost benefit analysis of the three transportation options, freight, land and sea, available to exporters for all commodities including both fruits and vegetables. He also provided the documentation required to pursue the three modes of shipment alternatives.

Business Development Plan for an Herb Farm at RCED, David Wagner, 02/05/2013 - 02/25/2013:

Assignment Description: David Wagner assisted the Beirut Arab University on developing a Business Development Plan for the Herb Farm at their Research Center for Environment and Development (RCED). The volunteer provided a business plan for the production of medicinal and aromatic plants including financial objectives, capacity building and strategies. The volunteer also worked on a marketing plan with market analysis for the RCED.

Targeted Host Organization: Beirut Arab University (BAU) - Research Center for Environment and Development (RCED)

Recommendations: As the RCED is a new center, the VC completed a full business plan for the center, focusing on the development of their herb farm. Specific recommendations included creating a network between farmers, stakeholders, medicinal and aromatic consumers, as well as the food, cosmetics and pharmaceutical industries. The VC recommended working with and providing assistance to the rural communities who depend on herbal resources for their livelihoods, and using them as resources to positively impact climate change, soil fertility, land degradation and dwindling water supplies.

Packaging of Fresh and Dry Produce: The Technical and Practical Aspects, Rafael Aures, 3/16/2013 - 3/23/2013:

Assignment Description: The American University of Beirut (AUB) – Faculty of Agricultural and Food Sciences (FAFS) requested two volunteer consultants to conduct training on modern food packaging techniques with a special focus on fresh produce. During this assignment, the VCs conducted a four-day seminar in cooperation with AUB professors. The seminar addressed packaging of fresh and dry produce in addition to the technical and practical aspects of maintaining product quality and safety.

Targeted Host Organization: American University of Beirut (AUB) – Faculty of Agricultural and Food Sciences (FAFS)

Recommendations: Rafael Aures providing trainings with recommendations on food packaging to maintain product quality and safety, shelf life modeling, migration concerns, product-package interaction, packaging of fresh produce, modified atmosphere packaging, as well as issues of sustainability and recycling. The training was attended by 95 participants; including students, professionals, stakeholders, as well as different NGOs, and groups of exporters.

Packaging of Fresh and Dry Produce: The Technical and Practical Aspects, Bruce Harte, 3/16/2013 - 3/23/2013:

Assignment Description: The AUB – Faculty of Agricultural and Food Sciences (FAFS) requested two volunteer consultants to conduct training on modern food packaging techniques with a special focus on fresh produce. During this assignment, the VCs conducted a four-day seminar in cooperation with AUB professors. The seminar addressed packaging of fresh and dry produce in addition to the technical and practical aspects of maintaining product quality and safety.

Targeted Host Organization: American University of Beirut (AUB) – Faculty of Agricultural and Food Sciences (FAFS)

Recommendations: Bruce Harte provided recommendations on packaging and maintaining product quality and safety, shelf life modeling, migration concerns, product-package interaction, packaging of fresh produce, modified atmosphere packaging, as well as issues of sustainability and recycling. The training was attended by 95 participants; including students, professionals, stakeholders, as well as different NGOs, and groups of exporters.

Pest and Disease Expert for Greenhouse Growers, James Correll, 05/08/2013 - 05/22/2013:

Assignment Description: Lebanese greenhouse farmers suffer from diseases and pests that result in crop damage, unnecessarily high crop losses and increased input costs.

Due to the absence of extension services across the country, farmers have limited access to agricultural extension advice and support. The four host organizations requested a VC to provide technical assistance on disease and pest control. The VC worked with the four greenhouse growers on how to control diseases and pests in an efficient way using IPM to better serve farmers within their regions

Targeted Host Organizations: Arcenciel; Hariri Foundation; Rene Moawad Foundation; Safadi foundation

Recommendations: James Correll recommended best practices in the area of integrated pest management. His recommendations included being more careful with their sanitation practices including removing obviously infected plants that likely will not yield any fruit. In addition, he recommended removing plant material when the harvest is complete.--including vines that may be intertwined in the metal tunnel house framing as the material can harbor inoculum of several pathogens.

Business/Strategic Planning for Associations, Scott Stovall, 02/16/2013 – 03/01/2013:

Assignment Description: The USAID-funded GDA project requested VC to work with four associations in Upper Egypt VC to enhance the institutional capacity of the farmer associations to efficiently provide their members with educational management and business planning advisory services. The VC conducted two training workshops on institutional capacity and sustainability, strategic planning and development, and how to develop a cost breakeven plan as well as a business/strategic plan. The workshops took place in Luxor and Aswan governorates and were attended by the board members of the four associations. During this assignment, the volunteer Scott Stovall assisted 16 males and trained eight males.

Targeted Host Organization: AlAml Agricultural Cooperative;El-Hekma Association;El-Mataana Association;El-Nogoaa

Recommendations: The volunteer recommended that the associations should have a written established strategic plan including the long-term strategic goals of the associations—which are both realistic and achievable. He recommended that the associations' Board of Directors should review and approve of the strategic plan and that the goals addressed in the strategic plan should be conveyed to the members at their annual meeting. Furthermore, he recommended that the Board should ensure that the milestones set out to reach the goals are attained that the Associations should review their successes as ways to measure future successes, and that they should identify their weaknesses and work to find solutions to help resolve them.

Mushrooms and mushroom compost production, Mickey Foley, 05/08/2013 - 05/23/2013:

Assignment Description: FARM FRESH, a farm for mushroom production in Karak Zahle, requested a volunteer consultant to establish an efficient mushroom compost production system for facilities of six rooms, each with two rows of five aluminum shelves each (the total growing area of each room is 280 m²). During this assignment, the VC visited Lebanese mushroom farmers in the region who grow the traditionally cultivated varieties known as the white button mushroom, in an effort to understand the sector and the constraints faced in order to make specific recommendations for the host organization.

Targeted Host Organization: FARM FRESH

Recommendations: Mickey Foley gave several references on compost making. He also recommended closed corridors, ventilators to provide filtered air with positive pressure to protect work area from ambient breezes. He also provided several references for mushroom diseases.

Vegetable Fresh Cut Expert, Mohamad Abdel Rahman, 05/14/2013 - 05/23/2013:

Assignment Description: The Rene Moawad Foundation a Lebanese non-profit and non-governmental organization, requested a volunteer consultant to teach and train RMF staff on quality control, safe and hygienic methods of processing and how to extend the shelf life of fresh vegetable cut produce for better quality of production.

Targeted Host Organization: Rene Moawad Foundation

Recommendations: Dr. Mohamad Abdel Rahman made recommendations on vegetable quality, firmness, freshness, and storing. He recommended inspecting vegetables upon reception and reject those of unacceptable quality. He also recommended to set up an inspection, grading and washing station on the first floor to wash and clean the vegetables before bringing them to the processing hall upstairs in their facility. Lastly, he recommended buying good quality vegetables when supplies are abundant and prices are low and storing them at one to five degrees Celsius for several weeks.

Juniperus drupacea (Syrian Juniper) research expert, Yurij Bihun, 05/14/2013 - 05/26/2013:

Assignment Description: The Lebanon Mountain Trail Association requested a volunteer consultant to identify the causal dieback agent of Cedar (*Cedrus libani*), Cilician Fir (*Abies cilicica*), Aleppo Pine (*Pinus halepensis*) and other species. The objective of this assignment was to determine whether the cause of the problem is abiotic or biotic and to try to remedy the situation for these high altitude evergreen trees. The severe problem of dieback has been noticed the last year and this year on some of the very old trees which showed a symptom like a fire has swept through them.

Targeted Host Organization: Lebanon Mountain Trail Association

Recommendations: Yurij Bihun recommended an inventory and monitoring program should to be put in place as soon as possible to determine the range of infection and potential rate of spread. The VC recommended to not sanitize or implement salvage cutting until a more complete picture of the spatial and temporal nature of the outbreak is defined. The VC encouraged the host organization to form a working group consisting of communities and other stakeholders should be formed to help address the issue.

Lebanon: Small Ruminants

Assessment for Dairy Plant Equipment, Sergio Espinoza, 12/03/2012 - 12/17/2012

Assignment Description: Three host organizations requested a volunteer consultant specialized in dairy and cheese processing plant equipment and production to give recommendations and training on the production of both local white and yellow fermented cheeses. During this assignment, the VC visited white cheese, processed cheese and natural cheese processing plants.

Targeted Host Organization: Biomass, Le Bon Lait, the Agricultural Cooperative for Raising Livestock- Saghbeen

Recommendations: Sergio Espinoza introduced 10 new products such as rice pudding, chocolate pudding and new cheeses of different recipes. He also recommended the host to use more machinery for pasteurization and packaging to prevent contamination, and to install a blower at the ceiling to kill the bacteria growing from the steam.

Dairy Cattle Nutrition, Archie Devore, from 12/04/2012 - 12/18/2012

Assignment Description: The multiple host organizations requested a VC to assist in improving the efficiency of feed formulation from available feed ingredients. The VC focused on the necessary nutrients to support maximum levels of potential production at the least cost possible rations, thus maximizing the production and minimizing the cost, to achieve the highest profits.

Targeted Host Organization: ALFA co Trade; Biomass; Chamber of Commerce, Industry and Agriculture of Zahle and the Bekaa; AIDCO; Saint Joseph University - Higher Institute for Mediterranean Agricultural Engineers

Recommendations: The volunteer recommended that ALFA c Trade considers planting forage sorghums, like BMR Forage First 90, rather than planting corn for silage whenever it is planted after June 15. He recommended that corn silage be harvested when the corn plants are near 33 to 35 percent dry matter in order to achieve optimum fermentation with greatest voluntary intakes. Formulations were generated for a TMR mixture for the herd, fattening bulls and dry cow concentrate mixtures. The volunteer recommended that antibiotics should not be used for mastitis treatment in an organic dairy.

Finally, the volunteer recommended that overall sanitation of the dairy facilities and dairy cows be improved so that milk quality can be enhanced.

Animal Reproduction-Veterinary Specialist, Roger Elis, 01/05/2013 - 01/19/2013

Assignment Description: Livestock diseases and lack of veterinary diagnostic laboratories to identify endemic, epidemic and reproductive diseases compromise a major constrain in the development of the livestock production in Lebanon. Therefore, LibanVet requested a veterinary expert to go over the general in farm veterinary practices and to train host organizations and their clients/beneficiaries on general livestock veterinary issues, including abomasum displacement surgery, artificial insemination, hoof trimming, etc.

Targeted Host Organization: LibanVet

Recommendations: Roger Elis provided a routine plan for fresh cows including: individual 4 X 4 meter box pen dedicated to calving, individual pens at first signs of calving, giving Calcium to cows that are cold and depressed. A follow up plan for cow after calving such as; disinfecting teats with 1% Iodine Teat Dip and leave on teats for approximately one minute. The VC demonstrated new techniques for displaced abomasum surgery. Entering cows into Pre-Sync and Ov-Sync Program; Prostaglandin, PGF2a and GNRH Ov Sync was also recommended.

Study on Imported Frozen Meat, Barakat Mahmoud, 01/12/2013 - 01/31/2013

Assignment Description: CCIAS requested a volunteer consultant to establish protocols for laboratory testing, specifically for meat. The VC also reviewed methods for distinguishing between fresh and frozen-thawed meat.

Targeted Host Organization: CCIAS

Recommendations: Barakat Mahmoud assisted CCIAS in developing a protocol for testing frozen meat. The volunteer recommended methods to distinguish between fresh and frozen-thawed meat including organoleptic test (color, weight, tenderness, juiciness, odor, etc.), physical and chemical tests (pH, water activity, and moisture content), and microbiological test (total plate count). The volunteer also provided the food safety inspection checklist for food processing facilities.

Kashkaval Cheese Processing, Sergio Espinoza, 02/09/2013 - 03/03/2013

Assignment Description: Lakkis Farms and Skaff Dairy Farm requested a volunteer consultant to assist them in establishing good manufacturing practices for processing goat and French cheeses. The volunteer conducted several successful trials of French and goat cheeses that are now available and ready to be produced at the three host organizations.

Targeted Host Organization: Lakkis Farms; Skaff Dairy Farm

Recommendations: Sergio Espinoza recommended good manufacturing practices for processing goat and French Cheese such as using machines for pasteurization and packaging to prevent contamination. He also recommended installing blowers on the ceiling to blow air that creates positive pressure in the processing plant that will blow the air from the processing plant outside—to prevent bacteria from getting into the processing plant and to kill the bacteria found in the steam. The volunteer conducted several successful trials of French and goat cheeses that are now available and ready to be produced at the three host organizations.

Sheep and goat production expert, Daniel Considine, 02/16/2013 - 03/01/2013

Assignment Description: The Agricultural Cooperative for Raising Livestock- Saghbeen; Jihad Daher Farm; Group of Farmers- Bar Elias requested a volunteer consultant to help them understand the general small ruminant production requirements. The volunteer was also requested to assist them in upgrading the performance of their members and clients, by providing better services and empowering enlarging their technical knowledge, and by providing better services--in order to be able to support more productive animals and ultimately increase their incomes.

Targeted Host Organization: The Agricultural Cooperative for Raising Livestock- Saghbeen; Jihad Daher Farm; Group of Farmers- Bar Elias

Recommendations: Daniel Considine assisted the host organizations on exploring the feed regimes practiced at various production periods, their cost and health implications. The volunteer recommended maintaining a good warmer to start the breeding season for sheep and goats and shortening the breeding period of the male sheep (ram) and the male goat (buck). The VC also recommended early weaning of lambs to have more milk at the lactation stage. Improved feeding programs, foot trimming, and health care measures for newly born lambs were also recommended.

Calf Raising Expert, Gary Geisler, 04/17/2013 - 05/01/2013

Assignment Description: The purpose of the assignment was to update and integrate small dairy farmers' knowledge on early dry feeding, colostrum feeding management for newly born calves in order to improve their potential productivity and profitability. The VC visited small dairies to observe the current calf raising practices and recommend sound practices on early dry feeding, colostrum feeding management for new born calves.

Targeted Host Organization: Khair Al Jarah Farm; Abdullah Khoury Farm; Elie Abu Akil Farm; Toufeek Asouf Farm; Toufeek Slieman Farm; Le Bon Lait; Liban Lait Farm; Coop Livestock Husbandry Forage production & Agro Processing in Akkar m.m.; Feedco Farm

Recommendations: Gary Geisler recommended best practices in the area of calf raising, beginning from disinfecting naval cords of the newly born calf, early colostrum feeding to increase transfer of passive immunity and adequate housing. Housing recommendations included using calf hutches, straw bedding to insulate calves from the cold floor. In the area of calf feeding, the volunteer recommended to increase milk replacer feeding rates and use texturized or pelleted calf feeds. Health care recommendations included diarrhea treatment, cleaning and sanitation, using clean equipment for feeding calves and the use of intranasal vaccine for calves was also recommended.

Livestock Surgery Expert, Walter Edward Hylton, 04/18/2013 - 05/04/2013

Assignment Description: F2F fielded a volunteer consultant to identify the prevailing endemic and epidemic livestock diseases and train local veterinarians on modern surgery techniques. The VC reviewed current veterinary surgical equipment and practices and trained the veterinarians on general livestock surgical operation practices, including abomasum displacement surgery.

Targeted Host Organization: LibanVet

Recommendations: Walter Hylton demonstrated several surgeries and recommended LibanVet veterinarians to perform complete physical examination on every animal that is presented for surgery. He also recommended providing adequate inventory of medication and supplies in vehicles in a systematic and efficient way. The new techniques demonstrated by the VC included Left Displacement Abomasum (LDA) toggle suture, perineal urethrostomy, Buhner perivaginal suture, castration, dehorning, corneal nerve blocks, episiotomy, paravertebral anesthesia, epidural anesthesia, etc.

Manure Composting Expert, Wayne Schoper, 05/05/2013 - 05/17/2013

Assignment Description: Dairy farms produce large amounts of manure, which is gathered at certain areas of the farm, and in some cases, cause odor and health problems to the surrounding areas. The manure needs to be removed in the farms, and the usual solution is to dump the manure in the river. Therefore, ALFA co Trade, a feed supplier company, started collecting the manure from the surrounding privately owned farms, purchasing it for their processing center at \$100 per truckload. The host requested a volunteer consultant to review the composting procedures, fine tune the chain of activities, rule out the potential constraints that might affect the final product and train ALFA co Trade technicians on the proper manure composting procedures.

Targeted Host Organization: ALFA co Trade

Recommendations: Wayne Schoper recommended composting practices for cow manure, such as monitoring compost temperatures and moisture levels on a regular basis, and having the staff

document the measurements using a daily log. He recommended that, keeping records of this type of information as crucial to good compost management. He also recommended the use of the compost product as an excellent source of nutrients essential for good crop production. He stressed the importance of soil testing analysis to determine nutrient levels in the soil.

Dairy Cattle Nutrition Expert, Archie Devore, 05/05/2013 - 05/18/2013

Assignment Description: Nutrition is one of the major activities in the dairy cattle production, as it accounts for 60-70 percent of the total cost of production. A group of different dairy farmers from various villages in North Lebanon requested a volunteer consultant to help establish an improved feeding system that provides the necessary nutrients to support maximum levels of potential production at the least cost possible rations, thus maximizing the production and minimizing the cost to achieve the highest profits. The group of dairy farmers is an informal group of farmers that have common interests and are usually served by the same veterinarian.

Targeted Host Organization: Group of dairy farmers in North Lebanon

Recommendations: Archie Devore recommended that dairy producers introduce grain concentrates slowly to cows, following calving, not exceeding more than 5 kg per day (2.5 kg fed 2x/day) with half fed in the morning and the other half fed in the late afternoon for the first 10 days after calving. He also recommended feeding lactating cows based on production volumes and phases. The use of least cost rations formulated by computer programs was also recommended.

Dairy Cattle Hoof Trimming Training, John Hopper, 05/05/2013 - 05/18/2013

Assignment Description: F2F fielded a hoof trimming volunteer consultant upon a request from a group of dairy farmers in North Lebanon to train their technical staff on proper hoof trimming, and present new techniques and recommendations to improve animal health and productivity and reduce their losses related to hoof problems. Often in the region, each farm has one technical person or technical staff, depending upon the size of the farm. The VC trained farm technicians on proper hoof trimming and demonstrated how to re-establish appropriate weight bearing on all four legs. He also trained them on how to deal with several foot diseases that result in causing economic losses to the dairy industry.

Targeted Host Organization: Group of dairy farmers in North Lebanon

Recommendations: John Hopper trained 12 hoof trimmers and farm technicians on proper hoof trimming and demonstrated how to re-establish appropriate weight bearing on all four legs. He also trained them on how to manage and treat several foot diseases such foot rot and foot and mouth disease. Some of the trainees were from larger farms, and some were people interested in trimming professionally and moving from farm to farm. The VC recommended follow up training to train more trimmers who can train others.

Dairy Farm Management Expert, Damon A. Szymanski, 08/17/2013 – 08/26/2013

Assignment Description: During this assignment, the VC evaluated the current management practices of dairy farmers and looked at improved dairy farm management practices to enable the farmers to become more competitive and sustainable. The VC assessed the constraints and made recommendations for farmers to produce higher quality milk. He also addressed issues of nutrition, disease control, and dairy cow housing. This assignment was cut short as the volunteer was evacuated before the original departure date for security reasons.

Targeted Host Organization: Elie Abu Akil Farm

Recommendations: The VC recommended a new mixture for feed in an effort to prevent displaced abomasum (DA). He also recommended a reduced period of six to seven for milking units to be on dairy cows, which was observed at 14 minutes.

Lebanon: Flexible

Eco-tourism Strategy and Action Plan for Forest Reserve, Susan Qashu 11/02/2012 - 11/16/2012

Assignment Description: Horsh Ehden Nature Reserve and Tannourine Cedars Forest, two natural reserves situated in close proximity in the north of Lebanon, requested a volunteer consultant to assist with drafting an ecotourism strategy. Both areas receive legal protection mainly due to their famous cedar forests. The Horsh Ehden nature reserve area is approximately 1,000 ha, while Tannourine Cedars Forest protects some 620 ha. Ecotourism is the single most important source of income for the two Nature Reserve Administrations, and plays a key role in the local economy. While the town of Horsh Ehden relies on a solid tourist network and a large number of visitors per year, only small numbers visit the Nature Reserve. In Tannourine, tourism is much less developed and lacks the needed infrastructure such as suitable accommodation facilities. Thus, assistance from a volunteer in the field of ecotourism strategy development was requested.

Targeted Host Organization: Horsh Ehden Nature Reserve

Recommendations: Susan Qashu developed an ecotourism strategy including the following needs: 1) improving the infrastructure to protect biodiversity and allow tourists to access the forest; 2) developing and launching the Horsh Ehden Nature Reserve Media; 3) introducing an inventory and monitoring program to assess whether and to what extent these activities have a measurable and desired impact on biodiversity; 4) harvesting community buy-in; and finally 5) establishing an ecotourism approach that aligns with internationally recognized best practices as well as responds to the experiences and observations in the field.

Community Development Training and Network Establishment of Women's Groups in Bekaa, Florence Wagner, 02/05/2013 - 02/25/2013

Assignment Description: In an attempt to play a key role in community development, the BAU - RCED requested a volunteer consultant to assist in planning a community development training and establishing a network of women groups and NGOs in Bekaa. This assignment aimed to enhance women's participation and input in the development of rural regions and economic growth of the country. Lebanon has made a significant progress towards achieving gender equality indicated in the dropping female illiteracy rate and increasing woman official employment rates. The intended training was designed to enable women to develop strategies and plans to upgrade their socio-economic status and enhance their contributions as effective actors of the nation.

Targeted Host Organization: BAU - RCED

Recommendations: Florence Wagner assisted the host organization in developing community development skills on raising women awareness and responsibilities with regard to national development. The volunteer trained 50 women on their household, financial, social rights in community and in family, and urged them to say things out loud. The volunteer also recommended that women associations join larger women groups.

Educational Interactive Models for Environmental Aspects, Heather Davidson, 02/15/2013 - 02/28/2013

Assignment Description: Green Hand, an environmental social culture NGO, requested a volunteer consultant to assist in improving its educational topics into interactive games and models engaging different age groups from five to 26 years old.

Targeted Host Organization: Green Hand

Recommendations: The volunteer developed an interactive framework and strategy for the resident echo-school. The volunteer also developed 20 environmental games for the mobile school.

Microbiology and Food Safety, Steven Pao, 03/02/2013 - 03/15/2013

Assignment Description: The CCIAS requested a volunteer consultant to assist their laboratories in creating local awareness on new and improved quality efforts in the food industry sector, and to evaluate and improve the microbiological testing protocols that are implemented in the laboratories of

the Chambers. The VC focused on Salmonella, Aflatoxin, bacteria in water (potable & for food industry usages), and microorganisms in food (fresh, processed, packed & in Modified Atmospheric Packaging).

Targeted Host Organization: CCIAS

Recommendations: Steven Pao focused on Enzyme-linked immunosorbent assay (ELISA) test as a very effective method for screening food samples for the presence of pathogens. Major ELISA manufacturers include TECRA, VIDAS, etc. TECRA system is less expensive to implement thus may be consider for laboratories with limited samples. When selecting the systems, the labs should always consider using testing methods that follow protocols and international standards first. The volunteer found that the laboratories still can grow in collaboration to take the advantage of TEAM (Together Everyone Achieves More) work fully. The VC also recommended using information from the CDC Morbidity and Mortality Weekly report (MMWR), FDA Bacterial Analytical Manual (BAM), and other recognized information sources to help pathogen testing data analysis and reporting. Furthermore, he recommended using printed labels instead of hand written labels for sample identification when possible and providing sampling and glove handling training to prevent potential cross-contamination in the lab.

Market Expert, Gary Bullen, 03/16/2013 - 03/26/2013

Assignment Description: Biomass is an organic brand that has recently established itself as a leader in the organic products such as fresh fruits and vegetables, poultry, and dairy products. Biomass requested a volunteer consultant to establish sound internal marketing skills and develop marketing processed and tools. The host also expected the VC to provide an external view on its different branding initiatives and marketing activities.

Targeted Host Organization: Biomass

Recommendations: Gary Bullen assisted Biomass in putting in place a strategic marketing framework and developing tools and activities. The volunteer recommended Biomass to go back and do a primary market assessment to understand the motivation of their clients in buying organic products. Additionally, the volunteer recommended that Biomass starts promoting organic meals to restaurants.

Green Responsible Tourism Strategy and Business/Action Plan, Susie Qashu, 03/19/2013 - 04/16/2013

Assignment Description: The Horsh Ehdn Nature Reserve requested a VC to assist in establishing Green Responsible Tourism as a special program for engaging various community sectors in nature with a responsible, sustainable, environmental and social approach. The program aims to highlight a special flora species (such as herbs) along every trail.

Targeted Host Organization: Horsh Ehdn Nature Reserve

Recommendations: By establishing a Green Responsible Tourism, the volunteer recommended engaging various community sectors in nature with a responsible, sustainable, environmental and social approach. The program she developed highlighted a special flora species (herb) along every trail. Through the program, the volunteer stressed the involvement of the local community, especially those community members with low-income status

Business Development Plans for Women's NGOs and Cooperative in Bekaa, David Wagner, 05/24/2013 – 06/21/2013

Assignment Description: BAU - RCED with the support of ACIDI/VOCA F2F-Lebanon, previously managed to create a network of eight active women's groups in the region and offered them initial general guidance and training. RCED-BAU requested a VC to follow up on the initiative to strengthen women's NGOs and cooperatives in the Bekaa region and develop their strategies, activities and business plans, after a previous assignment that identified the needs of these women group's for strategic and business plan . The VC promoted the role and participation of women in the development of rural regions and the socioeconomic growth of the country.

Targeted Host Organization: Beirut Arab University (BAU) - Research Center for Environment and Development (RCED)

Recommendations: During this assignment, David Wagner developed strategies, activities and business plans to promote the role and participation of women in the development of rural regions and the socioeconomic growth of the country.

Business Development Plans for Women's NGOs and Cooperative in Bekaa, Florence Wagner, 05/24/2013 - 06/21/2013

Assignment Description: The Beirut Arab University (BAU) - Research Center for Environment and Development (RCED with the support of ACDI/VOCA F2F-Lebanon, previously managed to create a network of eight active women's groups in the region and offered them initial general guidance and training. After a previous assignment that identified the needs of these women's group's for a strategic business plan, RCED-BAU requested a volunteer consultant to follow up on the initiative to strengthen the women's NGOs and cooperatives in the Bekaa region and develop their strategies, activities and business plans. The VC expected promoted the role and participation of women in the development of rural regions and the socioeconomic growth of the country.

Targeted Host Organization: Beirut Arab University (BAU) - Research Center for Environment and Development (RCED)

Recommendations: During this assignment, Florence Wagner developed strategies, activities and business plans to promote the role and participation of women in the development of rural regions and the socioeconomic growth of the country.

NON-CORE FLEXIBLE ASSIGNMENTS

Table 3: Non-Core Jordan Assignments

Volunteer Name	Assignment Title	Host	Assignment Dates	Total Days
Mushtaq Memon	Livestock Surgery Expert	Jordan National Centre for Research & Development	12/07/2012 – 12/29/2012	23
Daniel Flaherty	Small Ruminants Breeding Expert	Ministry of Agriculture	05/31/2013 - 06/14/2013	15
Mushtaq Memon	Reproductive efficiency assessment of male sheep & goats in Jordan Badia	Jordan National Centre for Research & Development	06/21/2013 - 07/07/2013	17
Margaret Davis	Antibiotic Resistance in Sheep & Goat in Badia region of Jordan	Jordan National Centre for Research & Development	06/21/2013 – 07/07/2013	17
Mohamad Abdel-Rahman	Harvest & Post Harvest - Fruits	Kifah Cooperative Society	06/15/2013 – 06/28/2013	14
Susan Corning	M&E Expert	Jordan Hashemite Fund for Human Development	09/17/2012 – 10/05/2012	19
Annette Aitkenhead	Marketing Strategy	Princess Basma Centre	10/07/2012 – 10/21/2012	15
Jamieson Scott	Solar Energy	Princess Basma Centre	11/12/2012 – 12/04/2012	23
Tanya Balsky	M&E Expert	Noor Al Hussein Foundation	01/27/2013 – 02/09/2013	14
Lyn Nelson	Product Development & Design	Noor Al Hussein Foundation	02/15/2013 – 03/08/2013	22
Wayne Neale	Fundraising Expert	Royal Botanic Gardens of Jordan (RBG)	04/26/2013 – 05/10/2013	15

Volunteer Name	Assignment Title	Host	Assignment Dates	Total Days
Scott Stovall	Rangeland & Biodiversity Expert	Royal Botanic Gardens of Jordan (RBG)	05/05/2013 – 05/17/2013	15
Valerie Stinger	Marketing Strategy	Halawani Industrial Company (H.I.C.)	05/11/2013 – 05/24/2013	14
Mohamad Abiad	Organic Fresh Produce Packaging	Kifah Cooperative Society	05/18/2013 – 05/23/2013	6
Barbara Coe	Assessment of the Eco-System Services	IUCN - The International Union for Conservation of Nature	06/12/2013 – 06/24/2013	13
Wayne Neale	RBG Institutional Advancement Follow Up	Royal Botanic Gardens of Jordan (RBG)	06/23/2013 – 07/08/2013	16
Charles Stathacos	Jordanian Herbs, Medicinal Plants and Essential Oils	Royal Botanical Gardens of Jordan (RBG)	07/21/2013 - 08/09/2013	20
M.L. Robinson	Botanic Garden Education (2)	Royal Botanical Gardens of Jordan (RBG)	08/16/2013 - 08/30/2013	15
Steve Windhager	Botanic Garden Interpretation Expert	Royal Botanical Gardens of Jordan (RBG)	08/18/2013 - 09/02/2013	16
A. Michael Marzolla	Botanic Garden Education Consultant	Royal Botanical Gardens of Jordan (RBG)	08/19/2013 - 09/03/2013	16
D. Andrew Brown	Permaculture Expert	Royal Botanical Gardens of Jordan (RBG)	09/04/2013 - 09/17/2013	14
Michael Embrey	Bee Products Packaging, Labeling and Marketing Expert	Royal Botanical Gardens of Jordan (RBG)	09/06/2013 - 09/20/2013	15
Steven Foster	Medicinal Plants Expert	Royal Botanical Gardens of Jordan (RBG)	09/06/2013 - 09/20/2013	15
Brian Doyle	Library Planning and Improvement	Royal Botanical Gardens of Jordan (RBG)	09/06/2013 - 09/23/2013	18
Arthur Young	Public Service Announcement Media Consultant	Royal Botanical Gardens of Jordan (RBG)	09/03/2013 - 09/24/2013	22

Livestock Surgery Expert, Mushtaq Memon, 12/07/2012 – 12/29/2012

Assignment Description: The JNCRD requested a veterinary expert to go over the general veterinary surgical equipment and practices and to train JNCRDS' local veterinarians. The volunteer was requested to train the veterinarians on general livestock surgical operations practices, including abomasums displacement surgery, so that they can serve their clients more efficiently. A total of 80 of beneficiaries directly benefitted from this assignment, 32 of whom were women

Targeted Host Organization: JNCRD

Recommendations: Musthaq Memon encouraged farmers to have their animals vaccinated against common viral diseases, explaining the vital importance of such health issue for not only animals but also for human being. He also discussed the importance of antibiotics that are used in milk and meat production animals, emphasizing the need of antibiotics to be withdrawn from the animal before human use.

Small Ruminants Breeding Expert, Daniel Flaherty, 05/31/2013 – 06/14/2013

Assignment Description: Small ruminant production accounts for the majority of livestock production in Jordan, thus it is important to provide small ruminant farmers with techniques to manage their flocks. It is also necessary to provide training about supplying animals with feasible and balanced rations that meet nutritional requirements in all physiological stages of production and encourage fast weight gains in order to reach the maximum potential levels of production and thereby enable profitable business. The volunteer worked directly with 23 people, two of whom were women.

Targeted Host Organization: Ministry of Agriculture

Recommendations: Daniel Flaherty recommended installing heat lamps in individual pens to provide more direct heat, in addition to installing shade cloth to block out the wind. He also recommended

providing straw for bedding in pens to improve the mortalities due to cold weather. Grain should be also stored in sealable containers to alleviate rodent problem and cleaning up any spilled grain on the ground. As for the mastitis, the volunteer recommended to post dip teats of each goat with iodine after milking. In the Dairy Farm, which is located in Madaba, the volunteer recommended the area the houses milking cows to be more enclosed to block winter winds, forage should be in front of the cows at all times to boost intake and milk production and young calves should be housed in a separate location from the adult cows for health considerations.

Reproductive Efficiency Assessment of male sheep & goats in Jordan Badia, Mushtaq Memon, 06/21/2013 – 07/07/2013

Assignment Description: Livestock production is an important part of rural Jordanians requires efficient production by utilizing current technologies. At present, breeding male sheep (rams) and male goats (bucks) are selected on basis of phenotypic characteristic (eg. Physical appearance). Livestock owners in Badia of Jordan are accustomed to only using phenotypic characteristics in selection rams and bucks to their flocks which might lead to less efficient production, besides wasting of time and money in breeding unqualified or less productive males. Therefore, the volunteer was requested to introduce new method to be adopted, which is Breeding Soundness Examination (BSE) to provide livestock owners a great help for best and guaranteed approach for selection.

Targeted Host Organization: JNCRD

Recommendations: the volunteer Consultant, Dr. Memon evaluated 45 males (43 rams and 2 bucks) from 13 farms in Highland and badia areas for BSE. All animals were examined for body condition, digital examination of the testes, and scrotal circumference (SC) was measured. Semen was collected with electro-ejaculator and the semen samples were evaluated for semen volume, sperm mass activity and sperm motility. The findings on SC, sperm motility, morphology and sperm concentration will be statically analyzed and final results are not ready yet but will be provided to parties soon.

Antibiotic Resistance in Sheep & Goat in Badia Region of Jordan, avis, 06/21/2013 – 07/07/2013

Assignment Description: JNCRD requested a VC assignment to provide their veterinarians a training with current information and best practices of antibiotic resistance for sheep and goats, specifically for the Badia region of Jordan. During the assignment, the VC also worked to address the knowledge gap on I epidemiology of antibiotic resistance in Jordan, by studying and surveying small ruminant herd owners in the Badia region to determine the prevalence of this practice. During the study, the volunteer reviewed the efficiency of non-prescription drugs used by farmers and obtained fecal E. coli from small ruminants to determine the prevalence of bacterial resistance in livestock populations.

Targeted Host Organization: JNCRD

Recommendations: To address the issue of antibiotic mishandling, the VC recommended education of herders on about how to handle drug. She recommended that the results of the study performed with the host organization be translated and shared with farmers. She also recommended that herders should be given basic instructions by a veterinarian about appropriate storage and uses of antibiotics.

Harvest & Post Harvest – Fruits, Mohamad Abdel Rahman, 06/15/2013 – 06/28/2013

Assignment Description: Estimates of post-harvest losses of fresh produce from improper farming practices, mishandling, and spoilage are high. This means that a big portion of what is produced never reaches the consumer, and the effort and money required to produce it are lost. If care is not taken in fresh produce harvesting, handling and transport, the produce will soon decay and become unfit for human consumption. Technical Assistance was requested to provide the members of al Kifak Cooperative Society with training on how to handle produce from harvesting to market. The Volunteer Consultant Dr. Mohamad Abdel Rahman from North Carolina worked in Ajloun and provided direct assistance to 8 women and 9 men. Although the scope of work of the assignment required training in harvest and post-harvest, the volunteer found out the Cooperative also needed training in pest control in organic production of fruits and vegetables.

Targeted Host Organization: Kifah Cooperative Society

Recommendations: The volunteer recommended the cooperative to obtain information and publication dealing with disease and pests attacking the crops in Ajloun area. In addition, he recommended the farmers to use the products currently available to them properly as directed on the labels and at the proper timing, as the products have limited performance in pest control.

Monitoring and Evaluation Specialist, Susan Corning, 09/17/2012 – 10/05/2012

Assignment Description: The HO requested a VC to assist in developing a comprehensive system for the organization that would eventually lead to an impact-assessment report. In addition to implementing and reporting on the data required; provisions of feedback to track implementation and identify any corrective measures that can be taken to help improve the potential for achieving the desired results.



Volunteer Susan Corning during her training session for JOHUD on M&E Practices

Targeted Host Organization: JOHUD

Recommendations: The VC provided her technical experience and provided JOHUD staff with training on different M&E systems to help evaluate the progress of their ongoing projects. The volunteer also recommended that the M&E Specialist in the organization should personally train small groups of representatives from the remainder of the units on M&E strategies (essentially a ToT) as this will enhance their awareness of the necessity of M&E and equip them with the skills necessary to implement their own strategies.

Marketing Strategy for Olive Oil & Medical Herbs, Annette Aitkenhead, 10/07/2012 – 10/21/2012

Assignment Description: VC Annette Aitkenhead assisted the Princess Basma Center (PBC) in marketing olive oil products to help increase the income of the households in the village. PBC is one of Jordan Hashemite Fund for Human Development (JOHUD's) Community Center and is located in Aqaba, south of Amman. During her assignment, Ms. Aitkenhead assisted 50 female farmers and 200 male farmers in Aqaba, mainly Disi Village, in marketing their olive oil products by changing people's perception of olive oil produced from Disi Village. The volunteer assisted in the launch of a marketing campaign around the superior attributes of Disi Olive Oil. In addition, she assisted the farmers in packaging and labeling their different products to respond to Aqaba's market as well as the tourist markets in the Kingdom.

Targeted Host Organization: PBDC

Recommendations: The volunteer recommended that the host organization expand their current bazaars to weekly events. She also recommended that they rent space in the city of Aqaba to have a permanent location for the women to promote their handicrafts. Lastly, she recommended that the PBDC should work with a local NGO or government agency in Aqaba to create a relationship that will allow them to distribute their product at local hotels, helping them to reach their target consumer of international tourists.

Small Changes can add up to big savings by using Solar Energy, Jamieson Scott, 11/12/2012 – 12/04/2012

Assignment Description: The HO requested a VC to assist in their awareness program on how to save energy, as well as to provide them with the latest techniques to transfer to solar energy--which makes going green affordable and easy. Solar energy is particularly promising in Aqaba where it is sunny all year round. During this assignment, the volunteer directly assisted 127 people, 65 of whom were women

Targeted Host Organization: PBDC
Recommendations: Jamie Scott recommended the use of solar energy to the community. He also made specific recommendations on how to utilize solar energy efficiently to reduce electric bills and improve the quality of the environment.



Volunteer Jamieson Scott meeting with staff from one of the hotels in Aqaba

Monitoring and Evaluation, Tanya Balsky, 01/27/2013 – 02/09/2013

Assignment Description: Noor Al Hussein Foundation requested a VC to assist them in implementing a comprehensive M&E system on their different projects that would eventually lead to an impact-assessment report. The VC addressed some of the problems currently encountered by NHF in their M&E system and trained the staff accordingly in the areas of data collection which include baseline assessment, interim data, and data analysis to their monitoring and evaluation systems. The VC also trained the staff on how to use an online surveys.

Targeted Host Organization: NHF

Recommendations: The VC provided recommendations on how to ensure proper data collection, including the baseline assessment, interim data, and data analysis. By doing so, the NHF staff will have more time to dedicate to impact analysis and reduce the chance of interpretation. In addition, the VC recommended the use of online surveys to gather information from field visits.

Product Development & Design, Lyn Nelson, 02/15/2013 – 03/08/2013

Assignment Description: This assignment was completed for NHF as well, since the HO requested technical experience to assess one of their women cooperative's working in handicraft and other products, by assisting the entrepreneurs in organizing the workplace and the working instruments as well as improving their existing products and/ or to create new product/ product line according to the market needs. The assignment was completed in Irbid in one of their community centers.



Volunteer Lyn Nelson with the group of women from NHF

Targeted Host Organization: Noor Al Hussein Foundation (NHF)

Recommendations: The VC recommended that the women introduce new products and product lines that match the market needs. She recommended new designs and color combinations, as well as new pricing systems for their items. The VC made specific recommendations for the women to tailor their products to the tourists markets in Amman and Irbid.

Fundraising Expert, Wayne Neale, 04/26/2013 – 05/20/2013

Assignment Description: The Royal Botanic Garden (RBG) is playing an important role in the mandated Biodiversity Action Plan and Strategy of Jordan, the government's official policy, however,

the RBG does not currently have a fundraising infrastructure in place or the knowledge of private fundraising best practices, nor does it have the human capital to facilitate putting it in place. The RBG requested a VC to provide technical assistance, research, training/ coaching on development and fundraising best practices, in addition to the creation of basic tools needed to apply the lessons learned. The total direct beneficiaries were total of 5, and 3 of them were women.

Targeted Host Organization: RBG

Recommendations: Wayne Neale recommended that the RBG research NGOs and their private fundraising activities to gain understanding on how they raise private international funding. In addition, he also recommended them to design public awareness or Public Service Announcement (PSA) campaign for print, social media and television as to increase public awareness of how individual households can support the survival of native biodiversity and the environment is expected to increase. The volunteer recommended that the RBG should be promoted as an eco-destination for the general public and students to learn about their country's unique bio-diversity.

Rangeland & Biodiversity Expert, Scott Stovall, 05/05/2012 – 05/17/2013

Assignment Description: RBG requested a VC to review the current projects and activities of the Community-Based Rangeland Rehabilitation (CBRR) Program and assist the team in future planning. The CBRR program is a unit of the RBG that administers the livestock grazing management and income generating activities of the garden. The Volunteer worked and trained directly two women and three men on this assignment.

Targeted Host Organization: RBG

Recommendations: The volunteer provided his recommendations in doing an individual CBRR action plan for each RBG site should it expand to other locations, in addition to coordinating some of the RBG rehabilitation goals, such as fire breaks, disturbed site reclamation, clearing vegetation along the side of roads, etc by using grazing. He also suggested hiring a range conservationist to manage the grazing plans, conduct range studies and to document and quantify plant trends and utilization. He also recommended that as part of income generation, CBRR should start considering offering their knowledge and services on a consulting business basis to land management governmental agencies, businesses, NGO's, etc.

Marketing Strategy, Valerie Stinger, 05/11/2012 – 05/24/2013

Assignment Description: Halawani Industrial Company requested a volunteer consultant to assist them in fact finding, in establishing a bench mark to evaluate their progress and success, and determining how they can improve and evaluate their sales and marketing operations. The focus of the assignment was on optimizing marketing and sales in domestic markets with an overarching goal to improve profitability to allow an incentive program for customers and promotions to consumers. The volunteer worked directly with 5 men.

Targeted Host Organization: HIC

Recommendations: The volunteer provided her recommendations on how to improve the profitability of the product line by introducing new product lines. In addition, she recommended HIC to promote their products to youth using point of sale displays, better in-store product placement and by maintaining product quality image by increasing attention to the packaging. She recommended that it is also important that the company be equipped and train representatives to merchandise the brand, improving customer support and developing a product story or a family company story.

Organic Fresh Produce Packaging, Mohamad Abiad, 05/18/2013 – 05/23/2013

Assignment Description: Kifah Cooperative Society, one of the leading cooperatives in the fields of organic farming in Jordan, lacks experience and expertise in the packaging of fresh produce. As a result, they requested the technical assistance of a VC to introduce a short training course on fresh produce packaging for to practice using available technologies and packaging options. The main goal from the assignment was to generate competence to select the right packaging materials for products,

design the right packaging structure, and choose the right packaging technologies for each fresh produce to provide customers with good quality product and help improve the local competitiveness of the Cooperative's organic product. The volunteer conducted an assessment on the current practices at the cooperative for packaging fresh product for 15 women and four men to introduce them to various packing materials and their food application. In addition the training included different topics like choosing the right packaging material, type of package, handling, post-harvest handling, storage and some processing conditions.



Volunteer Mohamed Abiad with the cooperative and the various new packaged goods

Targeted Host Organization: Kifah Cooperative Society

Recommendations: The VC recommended the cooperative to receive more trainings in food safety regulations knowledge and the implementation, as this needs to start with the minimally processed foods such as pickles, jams, etc. produced by their members. In addition, the volunteer recommended new packing material and specific food applications for each type of material.

Assessment of the Eco-System Services, Barbara Coe, 06/12/2013 – 06/24/2013 *Assignment*

Description: Eco-system services assessment is a new and complicated endeavor. The goal of this assignment was to build the capacity of the nature conservation non-governmental organizations in the Levant countries: Jordan, Syria, Lebanon and Palestine through a five-day training workshop for participants to gain an understanding of the functionality of ecosystems and tools to better assess the current ecosystems services. The volunteer was also requested to teach strategies for presenting assessment results to stakeholders and decision makers, aiming to influence policies related to nature conservation. The volunteer provided a workshop to 26 NGO's that addressed three major objectives: To enhance understanding of (1) ecosystem services concept and importance, (2) how to engage stakeholders to impact decisions about ecosystem services, and (3) ecosystem assessment methods and uses. After the workshop, the volunteer conducted an evaluation and reported that all the 20 participants, 5 of whom were women, learned various tools for Assessment of Ecosystem Services, which they plan to use in their work.



The Assessment to Ecosystem Services workshop

Targeted Host Organization: IUCN --

International Union for Conservation of Nature

Recommendations: The VC recommended that the IUCN should partner with an organization to conduct a follow-up training in more advanced techniques for *Assessment of Ecosystem Services*, especially monetary and other economic valuation. She also made specific recommendations for more strategic planning, stronger leadership and increased advocacy.

RBG Institutional Advancement Follow Up, Wayne Neale, 06/23/2013 – 07/08/2013

Assignment Description: The RBG requested a VC to arrange an Institutional Advancement Plan to facilitate outreach and contact with potential donors. At a critical stage in the RBG development, the

Organization needed to diversify its local, regional and international contacts and fundraising sources in order to accelerate preparations for the opening of Jordan's first botanic garden.

Targeted Host Organization: The Royal Botanic Garden (RBG)

Recommendations: The VC recommend that the RGB develop and Institutional Advancement Plan (IAP) and that they incorporate the IAP into their communications and branding as well as their public awareness strategy. He also recommended that they hire a communication coordinator as a full-time staff member.

Jordanian Herbs, Medicinal Plants and Essential Oils, Charles Stathacos, 07/21/2013 - 8/9/2013

Assignment Description: The RGB requested a VC to review and help identify potential markets for the medicinal plants both nationally and regionally. Along with RGB staff, the volunteer helped determine the different product categories for the medicinal plants (i.e. cosmetic, food and beverage, and medicinal) and rank the products based on the opportunities and challenges for marketing. The VC also helped produce an introductory market assessment for Jordanian essential oils.

Targeted Host Organization: The Royal Botanic Garden (RBG)

Botanic Garden Education (2), M.L. Robinson, 8/16/2013 - 8/30/2013

Assignment Description: Jordan is undergoing environmental problems such as desertification, water scarcity and loss of biodiversity. The RGB currently addresses all of these issues and consequently requested a VC to assist in their development of a comprehensive education master plan in order to educate visiting school children and other groups in a fun and engaging manner.

Targeted Host Organization: The Royal Botanic Garden (RBG)

Recommendations: The VC recommended that the RGB hire or dedicate a staff member to coordinate a training program for the curator as well as to look for and secure more funds for education and training purposes. The volunteer also recommended that a survey be conducted with the RGB staff to determine what would help them do their job more efficiently and what knowledge or subjects they would like to learn more about.

Botanic Garden Interpretation Expert, Steve Windhager, 8/18/2013 - 9/2/2013

Assignment Description: During the assignment, the VC helped facilitate a strategic planning process which will inform ongoing work for the RGB in site development, future development of a full interpretive master plan, and guide educational and scientific program development. The strategic plan was requested by the RGB as it will help provide the foundation with additional fundraising efforts, focus the pursuit of their programmatic grant support, and help to clarify the organizational priorities which need to be pursued over the next five years in order to allow the organization make progress in achieving their mission.

Targeted Host Organization: The Royal Botanic Garden (RBG)

Recommendations: The VC recommended that RGB work with a facilitator (so that all staff can participate) to conduct an expanded planning process with a longer period for reflection between planning elements. He recommended that this next step should include more RGB staff and a greater range of stakeholders (critical neighbors, other trustees, etc.) in order to create a shared sense of vision and support for the direction and mission of RGB as this will help motivate staff, clarify miscommunication about organizational direction and purpose, and ultimately allow the organization to more effectively achieve its mission

Botanic Garden Education Consultant, A. Michael Marzolla, 08/19/2013 - 09/03/2013

Assignment Description: The VC worked with M.L. Robinson as the RGB, as well as the volunteers, identified that the SOW to create a comprehensive education master plan would be better suited implemented by two individuals. This volunteer assignment was in tandem with M.L. Robinson's assignment.

Targeted Host Organization: The Royal Botanic Garden (RBG)

Recommendations: The VC recommended that the RGB management determine the size and composition of the education program staff, their roles and position descriptions. He also recommended that they hire an educational coordinator as soon as possible to plan and initiate a weekend program for the local community. Other recommendations included developing and maintaining an educational resource library for staff and volunteers and organizing and delivering on-site special events on weekends for the nearby community focused on topics based on the gardens vision and mission.

Permaculture Expert, D. Andrew Brown, 9/4/2013 - 9/17/2013

Assignment Description: Jordan is faced with ongoing water shortages and high summer temperatures. The RGB requested a VC to help set up a permaculture project to demonstrate efficient water use and sustainable practices, in an effort to help people in poor communities begin producing organic vegetables, to be sold in farmers' markets. During this assignment, the VC produced a plan for a permaculture pilot project suitable for Jordan and provided simple written instructions for the operations of the permaculture pilot project.

Targeted Host Organization: The Royal Botanic Garden (RBG)

Bee Products Packaging, Labeling and Marketing Expert, Michael Embrey, 9/6/2013 - 9/20/2013

Assignment Description: The RGB's honey and bee products operation is in its initial stages and does not yet have any packaging, labeling or market plan. The organization requested a VC to work with RGB beekeepers in order to develop a neat packaging and labeling system for their produced honey and bee products to appeal to consumers in both domestic and global markets.

Targeted Host Organization: The Royal Botanic Garden (RBG)

Recommendations: The VC recommended that the RGB partner with other organizations to develop education materials for the public to first educate beekeepers, as they currently do not have the resources to educate large amounts of beekeepers themselves. He also recommended that the RGB grounds should be fenced off to protect the public from injury from the local Jordanian honey bee, *Apis syriaca*, which is more defensive than the European honeybee. He also recommended that the RGB keep at least one Epi-pen on site in case staff or a visitor shows signs of an allergic reaction. RGB personnel should be trained to recognize and treat symptoms of allergic reactions so libelous problems can be avoided.

Medicinal Plants Expert, Steven Foster, 9/6/2013 - 9/20/2013

Assignment Description: Jordan is home to over 2,500 plant species, many of which have medicinal properties. Despite the existence and discovery of medicinal herbs, the RGB lacked the knowledge of their healing properties. The RGB requested a VC to review the medicinal properties of the existing indigenous herbs on RGB property, to determine whether the herbs have commercial utility—and for those that do, and determine the most effective to market them. In addition to these tasks, during the assignment the VC also helped link the RGB with research organizations interested in medicinal herbs.

Targeted Host Organization: The Royal Botanic Garden (RBG)

Library Planning and Improvement, Brian Doyle, 09/06/2013 - 09/23/2013

Assignment Description: The RGB houses documents and books regarding horticulture, environment, native floras, etc., critical to sustaining the mission and programs of the organization. With no current efficient system to organize these documents, the organization requested a VC to help establish a library system to efficiently manage them, both physically and electronically.

Targeted Host Organization: The Royal Botanic Garden (RBG)

Recommendations: The VC recommended that the RGB should use the specifications outlined they outlined together, to select and purchase an electronic library management system. He also recommended that they develop a collection management plan that would include an emphasis on low

cost electronic sources as well as hard copy materials—to include the identification of at least one other institution to collaborate with in order to not reinvent the wheel and to share resources.

Public Service Announcement Media Consultant, Arthur Young, 09/03/2013 - 09/24/2013

Assignment Description: Jordan is currently facing water shortages and desertification. While there is some sense of public awareness on the depletion of these natural resources, the average citizen does not know how to take steps to lessen the detrimental impacts. To support their mission of spreading awareness of these issues, the RGB requested a VC to help design a media and visual campaign to be shown across the country. During the assignment the VC created a campaign, including videos, radio and TV broadcasts, billboards, and newspaper ads that display tips on how to improve the current state of the environment and promote sustainable living.

Targeted Host Organization: The Royal Botanic Garden (RBG)

Table 4: Non-Core Volunteer Assignments in Other Non-core Countries

Volunteer Name	Assignment Title	Host	Assignment Dates	Total Days
Tunisia				
James Reynolds Burleigh	Tomato Good Agricultural Practices	Zgolli Frere Farmer group	03/11/2013 - 03/31/2013	21
Ramana Govin	Agro-Food Processing Quality Control Specialist	Zgolli Frere Farmer group	05/04/2013 - 05/17/2013	14
Morocco				
Ayla Ficken	Marketing Regional Products	Maroc Taswiq	12/01/2012 - 12/14/2012	14
Charles Mutz	Implementation of the Maroc Taswiq Marketing Strategy	Maroc Taswiq	01/14/2013 - 01/30/2013	17
Ann W. Harman	Modern Beekeeping Practices	Maroc Taswiq	04/13/2013 - 04/28/2013	16
Lyn Nelson	Product Development and Design Expert	Femmes de Marrakech	05/20/2013 - 06/8/2013	20
Mesha Munyan	Lavender Marketing Expert	Cooperative Al Khozama	06/04/2013 - 06/15/2013	12
Victor Gonzalez	Setup for Lavender Production Unit	Cooperative Al Khozama	06/04/2013 - 06/15/2013	12
Laura E. Mijares	Upgrade of the Tizizwa Cooperative	Tizizwa Cooperative	06/01/2013 - 06/15/2013	15
Robert A. Bond	Expert for Franchising Strategy	Maroc Taswiq	08/31/2013 - 09/11/2013	12
Catherine Lins	Youth Workforce Development & Leadership Training Program	Association du Grand Atlas	08/31/2013 - 09/14/2013	15
Ian Meeker	Diagnosis and Training Needs Analysis for Young People in Larache	Association Abdessamad Kenfaoui	09/02/2013 - 09/17/2013	16
Joy Meeker	Diagnosis and Training Needs Analysis for Young People in Larache II	Association Abdessamad Kenfaoui	09/02/2013 - 09/17/2013	16
Matthew Calvert	Institutional Empowerment and Development Planning	Association Abdessamad Kenfaoui	09/08/2013 - 09/21/2013	14
Colombia				

Volunteer Name	Assignment Title	Host	Assignment Dates	Total Days
Diane Griffin	Organizational Strengthening of CSOs	CSOs of SanAndres, Providencia and Santa Catalina	07/15/2013 - 09/18/2013	66
India				
Edward Doherty	Association Building in Mango Cluster	Lucknow Sunhara Mango Grower's Association	08/09/2013 - 08/23/2013	15
Kyrgyzstan				
Alan Osman	Capacity Strengthening of Garment Association	Souztextile Association	06/20/2013 - 07/06/2013	17

Tunisia: Flexible

Tomato Good Agricultural Practices, James Reynolds Burleigh, 03/11/2013 - 03/31/2013

Assignment Description: Lack of information on processing tomato best farming practices negatively affects the quality of the produced tomatoes as well as the productivity and profitability of tomato growers in Tunisia. Zgolli Frere Farmer group requested a VC to provide training in modern techniques and to develop a tomato farming manual covering topics such as seedling varieties, planting site selection, crop rotation considerations, and issues in irrigation and fertilization.

Targeted Host Organization: Zgolli Frere Farmer group

Recommendations: The VC recommended that the host ZF to hire an *Ingenieur Agronome* immediately, to be an interface between the organization and farmers as well as an advocate for farmers who work with Zgolli Frere. This engineer would be responsible for testing the performance of tomato varieties with resistance to different diseases and for establishing a disease/pest monitoring scheme for early detection of potential threats to tomato production.

Marketing Regional Products, Ramana Govin, 05/04/2013 - 05/17/2013

Assignment Description: This assignment was cut short due to lack of understanding between the volunteer and the host organization. The host organization was unprepared for this assignment, which led to miscommunication between them and the volunteer.

Targeted Host Organization: Zgolli Frere Farmer group

Morocco: Flexible

Marketing Regional Products, Ayla Ficken, 12/01/2012 - 12/14/2012

Assignment Description: Maroc Taswiq requested a VC to develop a marketing strategy to address both the local and export markets. During this assignment, the VC reviewed the organization's products and assisted the staff of Maroc Taswiq with a marketing plan to improve sales in their current stores as well as to identify new opportunities.

Targeted Host Organization: Maroc Taswiq

Recommendations: The VC made specific recommendations in terms of the Marco Taswiq logo and branding. She also recommended ways for physical improvement of their retail store in Casablanca to both to increase traffic and increase the appeal of the shopping experience. The VC recommended additional retail opportunities in new outlets such as hotels, souvenir shops and spas and in the future supermarket chains, as well as franchising in Morocco.

Implementation of the Maroc Taswiq Marketing Strategy, Charles Mutz, 01/14/2013 - 01/30/2013

Assignment Description: Seven months after Maroc Taswiq opened their store in Casablanca, the sales were low. In an effort to develop more effective marketing, the organization requested a VC to develop a marketing strategy that would appropriately reach consumers and convince them of the quality of local and traditional products.

Targeted Host Organization: Maroc Taswiq

Modern Beekeeping Practices, Ann W. Harman, 04/13/2013 - 04/28/2013

Assignment Description: The main problems that beekeepers in Morocco face include low quality of queens, pests and bee poisoning with pesticides, inadequate feeding practices, as well as poor harvesting techniques. Maroc Taswiq requested a VC to work with their honey producers in the North to these issues in an effort to reduce the cost of production. During this assignment, the VC visited different apiaries to put together a handout on best practices that she presented at a seminar.

Targeted Host Organization: Maroc Taswiq

Product Development and Design Expert, Lyn Nelson, 05/20/2013 - 06/8/2013

Assignment Description: Femmes de Marrakech cooperative requested a VC to assist them in the development of entire product collections and product lines as well as a cataloging system to market their products. During this assignment, the VC also worked with the host organization to identify and appropriately target new markets/clients for their products.

Targeted Host Organization: Femmes de Marrakech

Recommendations: The volunteer made specific recommendations for targeting the export market with new color patterns for existing products such as keychains and bangles. She also recommended using a light, colorful fabric to make market bags, in specific shapes and sizes.

Lavender Marketing Expert, Mesha Munyan, 06/04/2013 - 06/15/2013

Assignment Description: Cooperative Al Khozama requested a VC to assist their members with lavender by-product diversification, with a focus on adequate packaging techniques and design. During the assignment, the volunteer made recommendations for improvements in the use of their current machines as well as helped to develop and train members on different lavender by-product—which will provide farmers with high value for their end products.

Recommendations: The VC recommended the cooperative invest in different varieties of lavender, including Lavender *Angustifolias* which produces a high quality non-camphorous essential oil used in body care and culinary products. She also recommended that the use of copper in distillation process will help create a sweeter essential oil. The VC recommended that the members continue to seek additional training in creation of high quality lavender products.

Setup for Lavender Production Unit, Victor Gonzalez, 06/04/2013 - 06/15/2013

Assignment Description: Cooperative Al Khozama requested a VC to help identify and analyze the existing varieties of lavender. During the assignment, the VC also worked with the members to identify the diseases hindering production. The VC also provided training on the manufacturing of cosmetics and therapeutic products with existing plants.

Targeted Host Organization: Cooperative Al Khozama

Recommendations: The volunteer recommended that the cooperative introduce commercial lavender varieties that are well known to the international market, such as *Lavandula exintermedia*, and *Lavandula Angustifolia*. The volunteer also recommended specific areas in the region of Oulmes (where the cooperative is located) where the members should invest in planting lavender—areas where there are natural aspects that are conducive to lavender production such as access to wind and sloped ground.

Upgrade of the Tizizwa Cooperative, Laura E. Mijares, 06/01/2013 - 06/15/2013

Assignment Description: Tizizwa Cooperative, a local beekeepers cooperative, requested a VC to develop an action plan for the next three years to respond to their needs. In addition to drafting the



Volunteer Laura Mijares with members of the host organization outside of the hives

action plan with the members of the cooperative, the VC also review the current practices and made specific recommendations to increase production and profitability for the beekeepers.

Targeted Host Organization: Tizizwa Cooperative

Recommendations: The volunteer recommended that the host organization develop a calendar to track feeding, wintering of bees, queen rearing, etc. She also recommended that they adopt the Jentar and Miller techniques of queen rearing. She also recommended specific steps that should be taken early during the dry season to avoid some of the effects of drought.

Expert for Franchising Strategy, Robert A. Bond, 08/31/2013 - 09/11/2013

Assignment Description: Maroc Taswiq requested a VC to help develop a franchise strategy for both the national and international markets. In addition to creating the franchise strategy, during this assignment the volunteer also worked with the staff to present best practices on forming and maintaining franchise relationships with future franchisees.

Targeted Host Organization: Maroc Taswiq

Recommendations: The VC recommended that Maroc Taswiq produce a 5-year financial profit and loss spread sheet, with their income and expenses (current and projected) for domestic and international business—to include the number of stores targeted to open, and resources needed to provide for franchisee success. He also recommended that they add a ‘business opportunity’ section to their website that details the international franchise opportunity—to include benefits along with general ‘franchisee requirements’ information that would be included in a Commercial Partnership Agreement.

Youth Workforce Development & Leadership Training Program, Catherine Lins, 08/31/2013 - 09/14/2013

Assignment Description: Limited efforts have been made in Morocco to support the transformation of youth into leaders involved in governance and entrepreneurship. Association Grand Atlas, an organization active in fields related to poverty elevation, youth and other development initiatives, requested a VC to assess the training needs designed to help young rural women into enter the workforce and ultimately integrate into society as economic actors. During the assignment, the VC conducted trainings on leadership skills for selected youth (ages 15-19 years old).

Targeted Host Organization: Association du Grand Atlas

Recommendations: The VC recommended that the host organization explore development of youth clubs and women’s clubs for on-going non-formal education, potentially following the 4-H model. She also recommended that additional assessments should be undertaken in order to get information from targeted community members and incoming educators.

Diagnosis and Training Needs Analysis for Young People in Larache, Ian Meeker & Joy Meeker, 09/02/2013 - 09/17/2013

Assignment Description: Larache is an Atlantic port city in northern Morocco, however, unlike its neighbor Tanger, it is not a tourist destination. Larache currently suffers from a high level of youth unemployment as well as a high level of dropouts. The Association of Abdessamad Kenfaoui started an initiative to promote the city of and to integrate youth into the workforce in the sectors of animation, organization, commerce, handicrafts. The organization requested the assistance of two VCs to review and their training needs. During this assignment, brother and sister Ian and Joy Meeker worked with the association's youth to identify gaps in their training and make recommendations for improvement.

Targeted Host Organization: Association Abdessamad Kenfaoui

Recommendations: The volunteers recommended that the host expand their middle leadership of the association, as their current staff members are over-worked. They also recommended that the association should continue youth leadership training using the small and large group initiatives that they were introduced to. They recommended that the organization encourage students to promote Larache by building on their current interests (such as creating spaces for youth activities, green spaces, youth training).

Institutional Empowerment and Development Planning, Matthew Calvert, 09/08/2013 - 09/21/2013

Assignment Description: The host organization requested a VC to help develop an Institutional Development and Empowerment Plan. During the assignment, the VC provided leadership training to youth, focusing on the organization's governance initiative. The VC also worked with the host organization staff to develop and design a collaborative educational program for youth, tied to the Institutional Development and Empowerment Plan.

Targeted Host Organization: Association Abdessamad Kenfaoui

Recommendations: The VC recommended that the host develop systems needed for accountability with outside funders and evaluation to track impact internally and externally. He also recommended that they strengthen their support network—for mutual aid, joining forces to seek governmental, non-governmental and international support, shared training and program development, etc. Lastly, he recommended that they assist adult council members and youth partners in developing the resources needed to plan and ultimately create an Educational Center for Youth.

Colombia: Flexible

Organizational Strengthening of CSOs, Diane Griffin, 07/15/2013 - 09/18/2013

Assignment Description: A long-term volunteer assignment was requested to support various organizations in the archipelago of San Andrés, Providencia and Santa Catalina working with the USAID-funded Afro-Colombian and Indigenous (ACIP) program. During this assignment, the VC worked with a variety of different organizations, including cooperatives, government agencies, and Raizal civil society organizations (CSOs), in support of the project's goal of organizational strengthening of ethnic minority community-based organizations. During the assignment, the volunteer identified potential employment opportunities with private sector allies for workforce development and job placement projects. Additionally, she participated in Ethnic Organizational Capacity Assessment (EOCA) workshops with regional organizations.

Targeted Host Organization: CSOs of SanAndres, Providencia and Santa Catalina

India: Flexible

Association Building in Mango Cluster, Edward Doherty, 08/09/2013 -08/23/2013

Assignment Description: A local mango growers association in Lucknow requested a VC to build the capacity of mango growers in marketing and certification for mango exports through APEDA, a government entity that is the prime body for export promotion in India. Through a mix of capacity assessments and trainings of mango growers, the volunteer focused on the norms for exports,

application procedures for certification, and capacity building for export operations including packaging and chemicals. In addition to working directly with APEDA, the volunteer will spend several days engaging with other stakeholders involved in mango export operations.

Targeted Host Organization: Lucknow Sunhara Mango Grower's Association

Recommendations: The VC recommended that the association needs formal documents such as By Laws and position descriptions for Officer and Board positions. Additionally, he recommended that formal committees should be established by the association to engage more members in accomplishing necessary work. These committed leaders could be developed as candidates for future openings on the Board or Officer positions. The committees would improve communications among Farmer Clubs.

Kyrgyzstan: Flexible

Capacity Strengthening of Garment Association, Alan Osman, 06/20/2013 - 07/06/2013

Assignment Description: The garment industry in Kyrgyzstan is the third fastest growing market segment in the economy, behind gold and jewelry, and tourism. Souztextile, a non-profit organization that brings together 30 textile organizations in and around Bishkek, was identified as a prospective program partner on the USAID-funded Women's Leadership in Small and Medium Enterprises (WLSME) Program. The association consists of larger enterprises; however, it intends to increase membership by reaching more small and medium enterprises. For this purpose Souztextile requested a VC to develop new services for the association that would attract new SMEs. Additionally, during the assignment, the VC developed a strategy for attracting new SME members and produced guidelines for the delivery of services by the association.

Targeted Host Organization: Souztextile Association

Recommendations: The VC recommended that the association pursue new ideas such as collaboratively setting up textile related training institutes, to enhance the prospects of financial and material support from foreign investors. He also recommended that they seek alliances with organizations and interest groups (the Union of Textile Workers, certain academic institutions) to raise awareness of the needs of the textile industry as a whole.

Liberia Associate Award Reporting for Leader Award Annual Reports

	No. of Volunteers			Number of Volunteer Days Completed	Persons Directly Assisted			Persons Trained			Host Institutions							
	Male	Female	Total		Male	Female	Total	Male	Female	Total	C = Cooperatives and Associations	F = Individual Private Farmers	P = Other Private Enterprises	N = Non-Profit, Public Interest NGOs	E = Public and Private Education Institutions	R = Rural Financial Institutions	G = Public Sector Technical Agencies	Total
Design LOP Target			24															
Year 1 (April 2011-March 2012)	2	0	2	34	34	30	64	24	17	41	1	0	0	0	0	1	0	2
Year 2 (April 2012-March 2013)	11	2	13	195	318	505	823	165	417	582	5	2	2	1	2	2	0	14
Year 3 (April 2013 - September 2013)	2	3	5	82	78	37	115	100	51	151	1	1	2	0	2	1	0	7
LOP Total	15	5	20	311	430	572	1,002	289	485	774	7	3	4	1	4	4	0	23

Associate Award Reporting for Leader Award Annual Reports

	No. of Volunteers			Number of Volunteer Days	Persons Directly Assisted			Persons Trained			Host Institutions							
	Male	Female	Total		Male	Female	Total	Male	Female	Total	C = Co-operatives	F = Individual	P = Other Private	N = Non-Profit,	E = Public and	R = Rural Financ	G = Public Sector	Total
Design LOP Target																		
Year 1 (Aug 2010-July 2011)	1		1	12	10	32	42	230	200	430				1				1
Year 2 (Aug 2011-July 2012)	3		3	27	37	0	37	110	9	119		24		6				30
Year 3 (Aug 2012-July 2013)	7		7	195	50	32	82	13	16	29				8				7
Year 4																		
Year 5																		
LOP Total	11	0	11	234	97	64	161	353	225	578	0	24	0	15	0	0	0	38

Farmer-to-Farmer Program Reporting Table Proposal

Table 1a/1b: Volunteer Assignment Data																	Table 1b: Volunteer Assignment Activity Data																							
Assignment (Trip) No.	Name	Sex	M	F	State of Residence	Occupation Category	Race/Ethnicity	Prior FTF Assignments (Y/N)	Country	Country FTF Project	Assignment Start Date	Assignment End Date	Number of Volunteer Days Completed	Estimated Value of Volunteer Services Leveraged (U.S.\$)	Estimated Value of Host Contribution (U.S.\$)	Type of Volunteer Assistance	Commodity Chain Activity	S	F	P	M	Total	Persons Directly Assisted			Persons Trained			Number of Volunteer Recommendations											
																							Host(s)	Male	Female	Total	Male	Female	Total	Economic	Organizational	Financial	Environmental	Total						
Year 1																																								
A-M-2	James Reynolds Burleigh	M	1	0	NM	E	W/N	Yes	Egypt	Horticulture	2/2/2009	2/21/2009	20	\$9,400	\$870	E	0	0	1	0	0	1	F	0	1	0	0	1	El-Mataana Association;El-Nogooa Association;Sharq Tamia Smallholders Association	20	0	20	1	1	2	11	6	0	1	18
A-M-3	Keith Hawxby	M	1	0	MO	G	W/N	Yes	Egypt	Horticulture	1/31/2009	2/21/2009	22	\$10,340	\$1,294	T	1	0	0	0	0	1	F	0	1	0	0	1	El-Mataana Association;El-Nogooa Association;Sharq Tamia Smallholders Association	20	0	20	1	1	2	11	6	0	1	18
A-M-7	Cody Zebuel Jones	M	1	0	HI	P	W/N	Yes	Egypt	Horticulture	3/15/2009	3/26/2009	12	\$5,640	\$470	T	1	0	0	0	0	1	F	0	1	0	0	1	AI-Intelak Cooperative;Tiba Cooperative;Bangar Al-Sokar Cooperative	13	2	15	0	0	0	5	4	0	0	9
A-M-5	David G. Adams	M	1	0	OR	P	W/N	Yes	Egypt	Horticulture	3/17/2009	4/5/2009	20	\$9,400	\$435	T	1	0	0	0	0	1	F	0	1	0	0	1	El-Mataana Association;El-Nogooa Association;Islamic Charity Group	19	1	20	0	0	0	12	1	0	0	13
A-M-6	Roy Shawcroft	M	1	0	CO	P	W/N	Yes	Egypt	Horticulture	3/17/2009	4/8/2009	23	\$10,810	\$435	T	1	0	0	0	0	1	F	0	1	0	0	1	El-Mataana Association;El-Nogooa Association;Islamic Charity Group	19	1	20	0	0	0	12	1	0	0	13
A-M-11	Cody Zebuel Jones	M	1	0	HI	F	W/N	Yes	Egypt	Horticulture	4/5/2009	4/19/2009	15	\$7,050	\$570	T	1	0	0	0	0	1	F	0	1	0	0	1	El-Mataana Association;El-Nogooa Association;Islamic Charity Association	29	3	32	0	0	0	9	4	0	1	14
A-M-13-a	Anthony Christopher	M	1	0	CA	P	.	No	Egypt	Horticulture	4/30/2009	5/21/2009	22	\$10,340	\$1,190	E	0	0	1	0	0	1	M	0	0	0	1	1	Sharq Tamia Smallholders Association	14	2	16	0	0	0	5	17	1	0	23
A-M-13-c	Anthony Christopher	M	1	0	CA	P	.	Yes	Egypt	Horticulture	5/24/2009	6/4/2009	12	\$5,640	\$0	T	1	0	0	0	0	1	M	0	0	0	1	1	Sharq Tamia Smallholders Association	15	0	15	0	0	0	3	0	0	0	3
A-M-13-b	Anthony Christopher	M	1	0	CA	P	.	Yes	Egypt	Horticulture	6/7/2009	6/19/2009	13	\$6,110	\$180	T	1	0	0	0	0	1	F	0	1	0	0	1	Sharq Tamia Smallholders Association	23	0	23	0	0	0	3	0	0	0	3
A-M-28W	Heidi Wernett	F	0	1	NM	P	W/N	No	Egypt	Horticulture	8/4/2009	8/14/2009	11	\$5,170	\$870	T	1	0	0	0	0	1	S	1	0	0	0	1	Horticultural Export Improvement Association (HEIA)	15	0	15	13	3	16	6	7	1	0	14
A-M-23W	Adam Khan	M	1	0	NY	E	As	No	Egypt	Horticulture	8/2/2009	8/21/2009	20	\$9,400	\$0	T	1	0	0	0	0	1	S	1	0	0	0	1	West Noubaria Rural Development Project (WNRDP) Lab	46	2	48	6	2	8	13	3	0	1	17
A-M-24W	Ramana Govin	M	1	0	CA	P	As	Yes	Egypt	Horticulture	8/1/2009	8/21/2009	21	\$9,870	\$1,330	T	1	0	0	0	0	1	P	0	0	1	0	1	Al-Wadi Factory	50	10	60	1	1	2	15	1	0	1	17
A-M-26W	Cathryn Kloetzli	F	0	1	VA	E	W/N	Yes	Egypt	Horticulture	8/14/2009	8/28/2009	15	\$7,050	\$1,020	T	1	0	0	0	0	1	S	1	0	0	0	1	Beba Agricultural Technical School;Eshway Agricultural Technical School;Bani-Mazar Agricultural Technical School;Sohag Agricultural West Noubaria Rural Development Project (WNRDP) Lab	13	1	14	8	0	8	25	1	0	15	41
A-M-19	Edwin M Hayashi	M	1	0	CA	P	As	Yes	Egypt	Horticulture	8/21/2009	9/4/2009	15	\$7,050	\$0	E	0	0	1	0	0	1	P	0	0	1	0	1	West Noubaria Rural Development Project (WNRDP) Lab	10	0	10	0	0	0	4	0	0	0	4
A-M-27W	David Adams	M	1	0	OR	P	W/N	No	Egypt	Horticulture	8/23/2009	9/11/2009	20	\$9,400	\$0	T	1	0	0	0	0	1	S	1	0	0	0	1	West Noubaria Rural Development Project (WNRDP) Lab	65	11	76	65	11	76	6	3	0	1	10
A-M-25L	Dennis Magee	M	1	0	SC	E	W/N	No	Egypt	Horticulture	9/11/2009	9/28/2009	18	\$8,460	\$540	T	1	0	0	0	0	1	P	0	0	1	0	1	Al-Wadi Factory	50	10	60	1	1	2	4	3	1	4	12
A-M-22L	Roy Chapin	M	1	0	OR	Rtd	W/N	Yes	Egypt	Livestock & Dairy	6/26/2009	7/15/2009	20	\$9,400	\$0	T	1	0	0	0	0	1	S	1	0	0	0	1	Gerga Agricultural Technical School;Nasser Agricultural Technical Secondary School;Beba Agricultural Technical School;Korna Akkar m.m.;La Libanaise pour les Forages	3	0	3	4	0	4	25	1	0	0	26
A-M-21	Damon A. Szymanski	M	1	0	WI	P	W/N	Yes	Egypt	Livestock & Dairy	9/4/2009	9/18/2009	15	\$7,050	\$0	T	1	0	0	0	0	1	F	0	1	0	0	1	AI-Bostan Cooperative ;AI-Intelak Cooperative;Bangar Al-Sokar Cooperative;Tiba Cooperative;West Nubaria Cooperative	10	2	12	4	1	5	13	1	0	0	14
A-M-1	Charles Higgins	M	1	0	WI	P	W/N	Yes	Ethiopia	Flexible	11/7/2008	11/15/2008	9	\$7,990	\$0	T	1	0	0	0	0	1	S	1	0	0	0	1	Adet Agricultural Research Center	125	85	210	125	85	210	1	0	0	0	1
A-M-10	Scott Stanley	M	1	0	KS	E	W/N	Yes	Lebanon	Flexible	6/26/2009	7/12/2009	17	\$7,990	\$4,420	T	1	0	0	0	0	1	S	1	0	0	0	1	Africa 70	28	3	31	24	3	27	5	0	0	0	5
A-M-4	Robert L. Morris	M	1	0	NV	G	W/N	Yes	Lebanon	Horticulture	3/2/2009	3/20/2009	19	\$8,930	\$3,168	T	1	0	0	0	0	1	S	1	0	0	0	1	Safadi foundation	28	5	33	121	43	164	4	3	0	0	7
A-M-15	James Beardsley	M	1	0	MN	P	W/N	No	Lebanon	Horticulture	5/10/2009	5/26/2009	17	\$7,990	\$1,260	E	0	0	1	0	0	1	S	1	0	0	0	1	LBLI Project implemented by ACDI/VOCA and AED	25	10	35	0	0	0	0	4	0	0	4
A-M-14	Cody Zebuel Jones	M	1	0	HI	P	W/N	Yes	Lebanon	Horticulture	7/5/2009	7/18/2009	14	\$6,580	\$4,239	T	1	0	0	0	0	1	S	1	0	0	0	1	Hariri Foundation	62	5	67	0	0	0	7	0	0	0	7
A-M-29W	Lynn Long	M	1	0	OR	E	W/N	Yes	Lebanon	Horticulture	7/27/2009	8/9/2009	14	\$6,580	\$2,960	T	1	0	0	0	0	1	S	1	0	0	0	1	Arsal Rural Development Association (ARDA)	40	4	44	2	40	42	11	0	0	0	11
A-M-32W	Marlene Long	F	0	1	OR	C	W/N	Yes	Lebanon	Horticulture	7/27/2009	8/9/2009	14	\$6,580	\$2,960	T	1	0	0	0	0	1	S	1	0	0	0	1	Fresh World International (FWI)	24	4	28	26	1	27	18	0	0	0	18
A-M-33L	Archie Lee Devore	M	1	0	NE	Rtd	W/N	Yes	Lebanon	Horticulture	7/31/2009	8/15/2009	16	\$7,520	\$2,880	T	1	0	0	0	0	1	S	1	0	0	0	1	Coop Livestock Husbandry Forage production & Agro Processing in Akkar m.m.;La Libanaise pour les Forages	5	0	5	5	0	5	15	0	0	0	15
A-M-9	Steven P. Kovach	M	1	0	AL	N	W/N	No	Lebanon	Horticulture	8/7/2009	8/19/2009	13	\$6,110	\$3,470	T	1	0	0	0	0	1	S	1	0	0	0	1	Hariri Foundation	51	1	52	29	1	30	14	0	0	0	14
A-M-35W	Julie Albrecht	F	0	1	NE	E	W/N	Yes	Lebanon	Horticulture	9/6/2009	9/14/2009	9	\$4,230	\$1,903	T	1	0	0	0	0	1	S	1	0	0	0	1	Arcenciel	11	21	32	0	0	0	10	0	0	0	10
A-M-20	Scott Stovall	M	1	0	NM	F	W/N	Yes	Lebanon	Horticulture	8/31/2009	9/15/2009	16	\$7,520	\$1,480	T	1	0	0	0	0	1	S	1	0	0	0	1	AIDCO;ALFA co Trade	28	4	32	8	1	9	8	0	0	0	8
A-M-8	Daniel K. Miller	M	1	0	TX	E	W/N	Yes	Lebanon	Small Ruminants	5/8/2009	5/21/2009	14	\$6,580	\$3,575	T	1	0	0	0	0	1	S	1	0	0	0	1	LibanVet	80	0	80	0	0	0	9	0	0	0	9
A-M-12	David Slusser	M	1	0	PA	F	W/N	Yes	Lebanon	Small Ruminants	6/15/2009	6/30/2009	16	\$7,520	\$4,420	T	1	0	0	0	0	1	S	1	0	0	0	1	LibanVet;Doroub	11	1	12	9	1	10	11	0	0	0	11
A-M-31L	Poul Martin Trost Hansen	M	1	0	OH	Rtd	W/N	Yes	Lebanon	Small Ruminants	7/24/2009	8/8/2009	16	\$7,520	\$3,558	T	1	0	0	0	0	1	S	1	0	0	0	1	Rene Moawad Foundation	1	3	4	13	3	16	7	0	0	1	8
A-M-30L	Juan Norman Guerrero	M	1	0	CA	Rtd	W/H	No	Lebanon	Small Ruminants	8/14/2009	8/29/2009	16	\$7,520	\$3,762	T	1	0	0	0	0	1	S	1	0	0	0	1	LibanVet	25	0	25	0	0	0	6	0	0	0	6
A-M-34L	Walter Edward Hylton	M	1	0	VA	Rtd	W/N	Yes	Lebanon	Small Ruminants	8/14/2009	8/29/2009	16	\$7,520	\$2,375	T	1	0	0	0	0	1	S	1	0	0	0	1	LibanVet;Coop Livestock Husbandry Forage production & Agro Processing in Akkar m.m.	25	0	25	12	0	12	7	0	0	0	7
A-M-18	Roger George Ellis	M	1	0	NY	P	W/N	Yes	Lebanon	Small Ruminants	9/7/2009	9/21/2009	15	\$7,050	\$2,269	T	1	0	0	0	0	1	S	1	0	0	0	1	LibanVet;Coop Livestock Husbandry Forage production & Agro Processing in Akkar m.m.	55	0	55	25	0	25	33	6	0	0</	

A-M-151L	Souleymane Kebe	M	1	0		DC	F	B/N	Y	Lebanon	Small Ruminants	5/28/2011	6/11/2011	15	\$7,050	\$1,625	T	1	0	0	0	0	1	S	1	0	0	0	1	LibanVet;Coop Livestock Husbandry Forage production & Agro Processing in Akkar m.m.	8	2	10	2	0	2	7	0	0	0	7
A-M-157L	John Hooper	M	1	0		MN	P	W/N	N	Lebanon	Small Ruminants	7/3/2011	7/15/2011	13	\$6,110	\$3,543	T	1	0	0	0	0	1	S	1	0	0	0	1	LibanVet	50	5	55	25	5	30	5	0	0	0	5
A-M-160	Mushtaq Memon	M	1	0		WA	E	W/N	Y	Lebanon	Small Ruminants	7/16/2011	7/26/2011	11	\$5,170	\$2,395	T	1	0	0	0	0	1	S	1	0	0	0	1	LibanVet	18	4	22	12	0	12	6	0	0	0	6
A-M-171L	Jeffrey Gage	M	1	0		WA	P	W/N	N	Lebanon	Small Ruminants	8/13/2011	8/27/2011	15	\$7,050	\$3,468	T	1	0	0	0	0	1	S	1	0	0	0	1	ALFA co Trade	24	4	28	5	0	5	5	0	0	0	5
A-M-178W	James Morse	M	1	0		VA	F	W/N	N	Lebanon	Small Ruminants	9/4/2011	9/14/2011	11	\$5,170	\$2,260	T	1	0	0	0	0	1	S	1	0	0	0	1	Biomass	10	2	12	10	2	12	10	0	0	0	10
A-M-185	John Schultz	M	1	0		NY	F	W/N	Y	Lebanon	Small Ruminants	9/10/2011	9/24/2011	15	\$7,050	\$2,772	T	1	0	0	0	0	1	S	1	0	0	0	1	Rene Moawad Foundation	6	2	8	6	2	8	10	0	0	0	10
A-M-186	Valerie Stinger	F	0	1		CA	P		Y	Morocco	Flexible	9/12/2011	9/26/2011	15	\$7,050		O	0	1	0	0	0	1	S	1	0	0	0	1	Nectarome	0	0	0	0	0	0	0	1	1	0	2
A-M-187	Dennis Magee	M	1	0		SC	P	W/N	Y	Morocco	Flexible	9/13/2011	9/30/2011	18	\$8,460	\$0	T	1	0	0	0	0	1	F	0	1	0	0	1	SOCAMAR	0	0	0	0	0	0	0	0	0	0	0
A-M-189	Victor Gonzalez	M	1	0		WA	F		Y	Morocco	Flexible	9/17/2011	9/30/2011	14	\$6,580	\$0	T	1	0	0	0	0	1	F	0	1	0	0	1	Cooperative Al Khozama	0	0	0	0	0	0	0	0	0	0	0
Subtotals			58	8	66							983		472,820	71,987		57	4	5	0	0	66		49	12	4	1	66		2,695	525	3,220	1,679	316	1,995	315	61	3	16	395	

A-M-265W	Istvan Keri	M	1	0		CA	Rtd	W/H	Yes	Egypt	Horticulture	9/8/2012	9/21/2012	14	\$6,580	\$1,440	T	1	0	0	0	0	0	1	S	1	0	0	0	0	1	Horticultural Export Improvement Association (HEIA)	43	3	46	0	0	0	5	0	0	2	7
A-M-193W	Karen Lee Jacobsen	F	0	1		GA	P	W/N	No	Egypt	Livestock & Dairy	10/2/2011	10/14/2011	13	\$6,110	\$991	T	1	0	0	0	0	0	1	F	0	1	0	0	0	1	EMPA	38	0	38	29	1	30	6	0	0	0	6
A-M-196	Roger George Ellis	M	1	0		NY	P	W/N	Yes	Egypt	Livestock & Dairy	10/22/2011	11/5/2011	15	\$7,050	\$2,040	T	1	0	0	0	0	0	1	S	1	0	0	0	1	Al-Bostan Cooperative	12	0	12	12	0	12	4	0	0	0	4	
A-M-214L	Judith Moses	F	0	1		WI	P	W/N	No	Egypt	Livestock & Dairy	2/18/2012	3/2/2012	14	\$6,580	\$140	T	1	0	0	0	0	0	1	S	1	0	0	0	1	The Egyptian Association for Sheep and Goat (EASG)	27	3	30	27	3	30	4	0	0	0	4	
A-M-217L	Mary Nelson	F	0	1		MN	F	W/N	No	Egypt	Livestock & Dairy	3/3/2012	3/13/2012	11	\$5,170	\$450	T	1	0	0	0	0	0	1	S	0	1	0	0	1	Al-Bostan Cooperative	67	20	87	67	20	87	5	0	0	0	5	
A-M-227W	Daniel Hewitt	M	1	0		VT	F	W/N	No	Egypt	Livestock & Dairy	4/1/2012	4/10/2012	10	\$4,700	\$120	T	1	0	0	0	0	0	1	F	0	1	0	0	1	Tiba Cooperative	26	4	30	22	4	26	3	2	3	3	11	
A-M-243L	William Coleman	M	1	0		MN	Rtd	W/N	No	Egypt	Livestock & Dairy	6/2/2012	6/15/2012	14	\$6,580	\$630	T	1	0	0	0	0	0	1	S	1	0	0	0	1	Dairy Unit	12	0	12	4	0	4	0	3	0	0	3	
A-M-256L	Sergio Espinoza	M	1	0		UT	P	W/H	No	Egypt	Livestock & Dairy	7/28/2012	8/10/2012	14	\$6,580	\$540	T	1	0	0	0	0	0	1	P	0	0	1	0	1	Dairy Unit	9	6	15	6	6	12	2	0	0	0	2	
A-M-261L	Dennis Gehler	M	1	0		MN	P	W/N	No	Egypt	Livestock & Dairy	9/2/2012	9/13/2012	12	\$5,640	\$450	E	0	0	1	0	0	0	1	P	0	0	1	0	1	Nahdat Beni-Suief Foundation	4	1	5	0	0	0	0	1	3	1	1	6
A-M-250L	Scott Hooper	M	1	0		MN	F	W/N	No	Egypt	Livestock & Dairy Sector Development	6/30/2012	7/13/2012	14	\$6,580	\$880	T	1	0	0	0	0	0	1	S	1	0	0	0	1	EMPA	13	0	13	0	0	0	2	2	0	0	4	
A-M-200	David Slusser	M	1	0		PA	F	W/N	Yes	Jordan	Flexible	11/27/2011	12/12/2011	16	\$7,520	\$0	T	1	0	0	0	0	0	1	S	1	0	0	0	1	Noor Al Hussein Foundation	38	39	77	5	8	13	0	2	0	0	2	
A-M-201	A. Kaye Slusser	F	0	1		PA	P	W/N	Yes	Jordan	Flexible	11/27/2011	12/12/2011	16	\$7,520	\$0	T	1	0	0	0	0	0	1	S	1	0	0	0	1	Noor Al Hussein Foundation	38	39	77	5	8	13	0	2	0	0	2	
A-M-207	Jorge Juliano	M	1	0		OR	P	W/H	Yes	Jordan	Flexible	1/13/2012	1/23/2012	11	\$5,170	\$0	T	1	0	0	0	0	0	1	F	0	1	0	0	1	Rum Agricultural Co	3	3	6	3	2	5	0	12	0	0	12	
A-M-245	Edward Doherty	M	1	0		CO	P	W/N	Yes	Jordan	Flexible	6/8/2012	6/22/2012	15	\$7,050	\$0	T	1	0	0	0	0	0	1	M	0	0	0	1	1	JEPA (Jordan Exporters and Producers Association for Fruits & Vegetables)	1	5	6	1	5	6	0	4	0	0	4	
A-M-255	Archie Devore	M	1	0		NE	P	W/H	Yes	Jordan	Flexible	7/20/2012	7/31/2012	12	\$5,640	\$2,520	T	1	0	0	0	0	0	1	P	0	0	1	0	1	Jordan Society for Organic Farming	34	7	41	10	7	17	3	3	0	1	7	
A-M-264	Jay Lillywhite	M	1	0		NM	E	W/N	No	Jordan	Flexible	9/4/2012	9/20/2012	17	\$7,990	\$1,495	T	1	0	0	0	0	0	1	S	1	0	0	0	1	Jordan National Centre for Research & Development	12	4	16	12	4	16	1	1	0	0	2	
A-M-251L	Istvan ker	M	1	0		CA	P	W/H	No	Lebanon	Flexible	6/30/2012	7/13/2012	14	\$6,580	\$3,036	T	1	0	0	0	0	0	1	S	1	0	0	0	1	American Near East Refugee Aid (ANERA)	42	18	60	0	0	0	1	3	0	1	5	
A-M-192W	Robert Corshen	M	1	0		AL	P	W/N	No	Lebanon	Horticulture	10/1/2011	\$40,830	14	\$6,580	\$3,619	T	1	0	0	0	0	0	1	S	1	0	0	0	1	Biomass	25	9	34	0	0	0	3	1	0	0	4	
A-M-194	Roger Rosentreter	M	1	0		ID	C	W/N	No	Lebanon	Horticulture	10/1/2011	\$40,831	15	\$7,050	\$2,079	T	1	0	0	0	0	0	1	S	1	0	0	0	1	Tannourine Cedar Forest Nature Reserve	16	8	24	12	6	18	0	0	0	7	7	
A-M-195	Steve Popovich	M	1	0		CO	G	W/N	Yes	Lebanon	Horticulture	10/1/2011	\$40,831	15	\$7,050	\$1,998	T	1	0	0	0	0	0	1	S	1	0	0	0	1	Assia Agriculture cooperative for aromatic plants	2	1	3	0	0	0	4	1	0	0	5	
A-M-197	Bruce Bailey	M	1	0		CA	G	W/N	Yes	Lebanon	Horticulture	11/4/2011	\$40,866	16	\$7,520	\$4,108	T	1	0	0	0	0	0	1	S	1	0	0	0	1	Emkan for Sustainable Microfinance & Community Development.	33	32	65	0	0	0	0	3	0	0	3	
A-M-180	Mark Aseltine	M	1	0		CA	P	W/N	No	Lebanon	Horticulture	11/21/2011	\$40,883	16	\$7,520	\$2,821	T	1	0	0	0	0	0	1	S	1	0	0	0	1	Biomass	4	1	5	0	0	0	3	7	0	0	10	
A-M-198W	Timothy Coolong	M	1	0		KY	E	W/N	No	Lebanon	Horticulture	11/28/2011	\$40,886	12	\$5,640	\$3,100	T	1	0	0	0	0	0	1	S	1	0	0	0	1	Chamber of Commerce, Industry and Agriculture of Zahle and the Bekaa	27	6	33	25	5	30	0	7	0	0	7	
A-M-199	Jorge Juliano	M	1	0		OR	P	W/H	Yes	Lebanon	Horticulture	11/26/2011	\$40,887	15	\$7,050	\$4,460	T	1	0	0	0	0	0	1	S	1	0	0	0	1	USEK: Holy Spirit University of Kaslik	10	12	22	2	7	9	6	4	0	0	10	
A-M-204L	James C. Correll	M	1	0		AR	E	W/N	No	Lebanon	Horticulture	1/2/2012	\$40,922	13	\$6,110	\$835	T	1	0	0	0	0	0	1	S	1	0	0	0	1	Rene Moawad Foundation;Arcenciel	24	3	27	8	2	10	15	0	0	0	15	
A-M-208L	Mosbah Kushad	M	1	0		WA	N	W/N	Yes	Lebanon	Horticulture	1/14/2012	\$40,936	15	\$7,050	\$4,108	T	1	0	0	0	0	0	1	S	1	0	0	0	1	Emkan for Sustainable Microfinance & Community Development.	118	4	122	92	2	94	0	5	0	0	5	
A-M-223W	Jorge Juliano	M	1	0		OR	P	W/H	Yes	Lebanon	Horticulture	3/17/2012	\$40,998	14	\$6,580	\$2,000	T	1	0	0	0	0	0	1	S	1	0	0	0	1	USEK: Holy Spirit University of Kaslik;Cooperative Kherbet Char	1	5	6	1	5	6	1	0	0	0	1	
A-M-224W	Usha Palaniswamy	F	0	1		AL	P	As	No	Lebanon	Horticulture	3/21/2012	\$40,999	11	\$5,170	\$2,680	T	1	0	0	0	0	0	1	S	1	0	0	0	1	Chamber of Commerce, Industry and Agriculture of Zahle and the Bekaa	3	6	9	0	0	0	1	0	0	0	1	
A-M-228W	Michael Straus	M	1	0		CA	P	W/N	No	Lebanon	Horticulture	4/16/2012	\$41,026	12	\$5,640	\$1,434	T	1	0	0	0	0	0	1	S	1	0	0	0	1	Biomass;Organic Baking Company	15	7	22	0	0	0	6	3	0	0	9	
A-M-230	Richard J. Stanley	M	1	0		NY	P	W/N	Yes	Lebanon	Horticulture	4/21/2012	\$41,033	14	\$6,580	\$3,410	T	1	0	0	0	0	0	1	S	1	0	0	0	1	WADA The Women's Association of Deir El Ahmar	46	12	58	6	12	18	6	3	0	0	9	
A-M-237W	Scott Jamieson	M	1	0		AK	P	W/N	No	Lebanon	Horticulture	5/15/2012	\$41,061	18	\$1,410	\$4,482	T	1	0	0	0	0	0	1	S	1	0	0	0	1	Horsh Ehdn Nature Reserve	10	2	12	2	2	4	1	0	0	7	8	
A-M-238W	Jorge Juliano	M	1	0		OR	F	W/H	Yes	Lebanon	Horticulture	5/10/2012	\$41,063	25	\$11,750	\$6,495	T	1	0	0	0	0	0	1	S	1	0	0	0	1	American University of Beirut (AUB) – Faculty of Agricultural and Food Sciences (FAFS)	14	3	17	12	4	16	6	0	0	0	6	
A-M-209L	Jonathan Metzig	M	1	0		WI	P	W/N	No	Lebanon	Small Ruminants	1/14/2012	\$40,936	15	\$7,050	\$3,581	T	1	0	0	0	0	0	1	S	1	0	0	0	1	Rene Moawad Foundation	14	4	18	9	3	12	2	0	0	0	2	
A-M-213L	Lloyd Stephen Willson	M	1	0		KS	P	W/N	No	Lebanon	Small Ruminants	2/11/2012	\$40,967	18	\$8,460	\$3,360	T	1	0	0	0	0	0	1	S	1	0	0	0	1	LibanVet	210	2	212	140	2	142	1	0	0	0	1	
A-M-219L	John Wenning	M	1	0		OH	P	W/N	No	Lebanon	Small Ruminants	3/4/2012	\$40,985	14	\$6,580	\$2,200	T	1	0	0	0	0	0	1	S	1	0	0	0	1	USEK: Holy Spirit University of Kaslik;Biomass;ALFA co Trade;AIDCO	38	7	45	26	6	32	4	0	0	0	4	
A-M-222L	William Bravn Goeres	M	1	0		WA	P	W/N	Yes	Lebanon	Small Ruminants	3/10/2012	\$40,992	15	\$7,050	\$4,041	T	1	0	0	0	0	0	1	S	1	0	0															

A-M-295W	James Correll	M	1	0	1	AZ	E	W/N	Yes	Egypt	Horticulture	2/16/2013	2/27/2013	12	\$5,640	\$1,040	T	1	0	0	0	0	0	1	F	0	1	0	0	1	Egyptian Union of Producers and Exporters of Horticultural Crops (UPEHC)	46	0	46	46	0	46	5	0	0	0	5
A-M-297W	Michael Lowery	M	1	0	1	GA	P	W/N	Yes	Egypt	Horticulture	2/11/2013	3/1/2013	19	\$8,930	\$400	F	0	0	0	1	0	1	S	1	0	0	0	1	Fayoum Agro Organic Association (FAODA);Nahdat Beni-Suief Foundation	23	18	41	10	13	23	0	5	0	0	5	
A-M-298W	Scott Stovall	M	1	0	1	NM	F	W/N	Yes	Egypt	Horticulture	2/16/2013	3/1/2013	14	\$6,580	\$800	O	0	1	0	0	0	1	S	1	0	0	0	1	Association:El-Nogoa Association;Asfoun Association;Almoustaqbal	16	0	16	8	0	8	0	5	0	0	5	
A-M-304W	Mohamed Ismaiel	M	1	0	1	FL	Rtd	W/N	No	Egypt	Horticulture	2/23/2013	3/7/2013	13	\$6,110	\$980	T	1	0	0	0	0	1	F	0	1	0	0	1	Agriculture and Agro-industries Technology Center (ATC);Grants, Innovation, Technology, Transfer Center (GITTC)	40	0	40	40	0	40	5	0	0	0	5	
A-M-308W	Edward Doherty	M	1	0	1	CO	P	W/N	Yes	Egypt	Horticulture	3/4/2013	3/20/2013	17	\$7,990	\$860	O	0	1	0	0	0	1	S	1	0	0	0	1	El-Hekma Association;Almoustaqbal Association (El Selsela)	7	0	7	7	0	7	1	0	0	0	1	
A-M-309	(Edward) Jim Valentine	M	1	0	1	CA	P	W/N	Yes	Egypt	Horticulture	3/9/2013	3/21/2013	13	\$6,110	\$890	T	1	0	0	0	0	1	F	0	1	0	0	1	Agriculture and Agro-industries Technology Center (ATC);Grants, Innovation, Technology, Transfer Center (GITTC)	150	100	250	0	0	0	5	0	0	0	5	
A-M-310	Arthur Villordon	M	1	0	1	LA	E	AS	No	Egypt	Horticulture	3/8/2013	3/22/2013	15	\$7,050	\$900	T	1	0	0	0	0	1	F	0	1	0	0	1	Grants, Innovation, Technology, Transfer Center (GITTC)	52	19	67	35	19	54	7	0	0	0	7	
A-M-311W	Diane Griffin	F	0	1	1	NC	P	N/A	Yes	Egypt	Horticulture	3/10/2013	3/22/2013	13	\$6,110	\$570	O	0	1	0	0	0	1	S	1	0	0	0	1	Foundation	6	8	14	6	7	13	1	0	0	0	1	
A-M-315	Mohamed Abdel-Rahman	M	1	0	1	NC	E		Yes	Egypt	Horticulture	3/13/2013	3/29/2013	17	\$7,990	\$440	T	1	0	0	0	0	1	P	0	0	1	0	1	Mataana Association;Asfoun Association	35	0	35	8	0	8	1	0	0	0	1	
A-M-316W	Frantz Claude Ventre	M	1	0	1	VA	F	W/N	No	Egypt	Horticulture	3/17/2013	3/30/2013	14	\$6,580	\$480	T	1	0	0	0	0	1	F	0	1	0	0	1	Agricultural Community Development Association "ACDA"	50	0	50	9	0	9	5	0	0	0	5	
A-M-319	Damien Connaughton	M	1	0	1	NM	F	W/N	No	Egypt	Horticulture	3/29/2013	4/12/2013	15	\$7,050	\$900	T	1	0	0	0	0	1	F	0	1	0	0	1	(UPEHC)	8	1	9	0	0	0	5	0	0	0	5	
A-M-320	Cathryn Kloetzli	F	0	1	1	NJ	E		No	Egypt	Horticulture	3/29/2013	4/15/2013	18	\$8,460	\$390	T	1	0	0	0	0	1	F	0	1	0	0	1	Cooperative;Almoustaqbal Association (El Selsela);Bangar Al-Sokar	16	0	16	0	0	0	6	0	0	0	6	
A-M-323	Ross Hayes Penhallegon	M	1	0	1	OR	P	W/N	No	Egypt	Horticulture	4/14/2013	4/26/2013	13	\$6,110	\$1,445	T	1	0	0	0	0	1	F	0	1	0	0	1	Grants, Innovation, Technology, Transfer Center (GITTC)	195	24	219	0	0	0	3	2	0	0	5	
A-M-325	James Edward Neibauer	M	1	0	1	MI	F	W/N	No	Egypt	Horticulture	4/19/2013	5/1/2013	13	\$6,110	\$653	T	1	0	0	0	0	1	F	0	1	0	0	1	Grants, Innovation, Technology, Transfer Center (GITTC);West Noubaria Rural Development Project (WNRDP) Lab	21	0	21	4	0	4	1	0	0	0	1	
A-M-327	Jennifer Gillett-Kaufman	F	0	1	1	FL	E	W/N	No	Egypt	Horticulture	4/19/2013	5/3/2013	15	\$7,050	\$540	T	1	0	0	0	0	1	P	0	0	1	0	1	Egyptian Union of Producers and Exporters of Horticultural Crops (UPEHC)	62	2	64	36	7	43	5	0	0	0	5	
A-M-328W	William Campbell	M	1	0	1	AK	E	W/N	Yes	Egypt	Horticulture	4/19/2013	5/3/2013	15	\$7,050	\$1,400	T	1	0	0	0	0	1	F	0	1	0	0	1	Egyptian Union of Producers and Exporters of Horticultural Crops (UPEHC)	49	2	51	0	0	0	1	0	0	0	1	
A-M-333	Mike Gangwer	M	1	0	1	MI	P	W/N	Yes	Egypt	Horticulture	5/4/2013	5/17/2013	14	\$6,580	\$1,245	T	1	0	0	0	0	1	S	1	0	0	0	1	Egyptian Union of Producers and Exporters of Horticultural Crops (UPEHC)	55	6	61	0	0	0	5	0	0	0	5	
A-M-345	Enos William Rogister	M	1	0	1	NC	F		No	Egypt	Horticulture	5/10/2013	5/24/2013	15	\$7,050	\$650	T	1	0	0	0	0	1	F	0	1	0	0	1	El-Hekma Association;AlAml Agricultural Cooperative;West Noubaria Rural Development Project (WNRDP) Lab	70	0	70	70	0	70	4	0	0	0	4	
A-M-346W	Robert E. Call	M	1	0	1	AZ	E	W/N	Yes	Egypt	Horticulture	5/6/2013	5/24/2013	19	\$8,930	\$1,165	T	1	0	0	0	0	1	F	0	1	0	0	1	Egyptian Union of Producers and Exporters of Horticultural Crops (UPEHC)	32	12	44	0	0	0	6	0	0	0	6	
A-M-348	Justin Scheiner	M	1	0	1	TX	E	W/N	No	Egypt	Horticulture	5/17/2013	5/31/2013	15	\$7,050	\$1,610	T	1	0	0	0	0	1	F	0	1	0	0	1	Grants, Innovation, Technology, Transfer Center (GITTC)	56	0	56	12	0	12	6	0	0	0	6	
A-M-349	James Kamas	M	1	0	1	TX	E	W/N	No	Egypt	Horticulture	5/17/2013	5/31/2013	15	\$7,050	\$2,260	T	1	0	0	0	0	1	F	0	1	0	0	1	(UPEHC)	44	1	45	0	0	0	7	0	0	0	7	
A-M-361	Michael Lachance	M	1	0	1	VA	E	W/N	No	Egypt	Horticulture	6/15/2013	6/28/2013	14	\$6,580	\$1,294	T	1	0	0	0	0	1	S	1	0	0	0	1	Grants, Innovation, Technology, Transfer Center (GITTC);Egyptian Biodynamic Association (EBDA)	63	4	67	58	1	59	0	6	0	0	6	
A-M-363	Mike Gangwer	M	1	0	1	MI	P	W/N	Yes	Egypt	Horticulture	6/15/2013	6/28/2013	14	\$6,580	\$255	T	1	0	0	0	0	1	S	1	0	0	0	1	West Noubaria Rural Development Project (WNRDP) Lab	110	20	130	110	20	130	3	0	0	0	3	
A-M-385	Wayne H. Thompson	M	1	0	1	TX	E	W/N	Yes	Egypt	Horticulture	9/21/2013	9/27/2013	7	\$3,290	\$0	T	0	0	1	0	0	1	F	0	1	0	0	1	El-Hekma Association;AlAml Agricultural Cooperative;Almoustaqbal Association (El Selsela)	220	80	300	0	0	0	1	0	0	0	1	
A-M-386	Mohamed Abdel-Rahman	M	1	0	1	NC	E	W/N	Yes	Egypt	Horticulture	9/18/2013	9/28/2013	11	\$5,170	\$0	E	0	1	0	0	0	1	S	1	0	0	0	1	El-Mataana Association;El-Nogoa Association;Asfoun Association	220	80	300	20	5	25	1	0	0	0	1	
A-M-387	Damon A. Szymanski	M	1	0	1	WI	Rtd	W/N	Yes	Egypt	Horticulture	9/19/2013	9/28/2013	10	\$4,700	\$0	O	0	1	0	0	0	1	S	1	0	0	0	1	Bangar Al-Sokar Cooperative;Al-Intalak Cooperative;Tiba Cooperative;West Nubaria Cooperative	20	5	25	20	5	25	0	1	0	0	1	
A-M-281L	Jeff Cage	M	1	0	1	AL	P	W/N	Yes	Egypt	Livestock & Dairy	11/30/2012	12/20/2012	21	\$9,870	\$320	T	1	0	0	0	0	1	S	1	0	0	0	1	Egyptian Biodynamic Association (EBDA);Grants, Innovation, Technology, Transfer Center (GITTC)	15	2	17	15	2	17	1	0	0	0	1	
A-M-318W	Diego Caledron	M	1	0	1	WI	E	O	Yes	Egypt	Livestock & Dairy	3/22/2013	4/5/2013	15	\$7,050	\$383	T	1	0	0	0	0	1	S	1	0	0	0	1	Nahdat Beni-Suief Foundation	47	11	58	0	0	0	4	0	0	0	4	
A-M-339	Wendy Rapp (Flatt)	F	0	1	1	MO	E	W/N	No	Egypt	Livestock & Dairy	5/6/2013	5/22/2013	17	\$7,990	\$1,092	T	1	0	0	0	0	1	S	1	0	0	0	1	Grants, Innovation, Technology, Transfer Center (GITTC);West Noubaria Rural Development Project (WNRDP) Lab	53	17	70	23	10	33	2	2	0	0	4	
A-M-355	Roger L. Dreyer	M	1	0	1	TX	P	W/N	No	Egypt	Dairy	6/1/2013	6/14/2013	14	\$6,580	\$945	T	1	0	0	0	0	1	P	0	0	1	0	1	Grants, Innovation, Technology, Transfer Center (GITTC)	64	47	111	0	0	0	3	1	0	0	4	
A-M-277L	Corine Quarterman	F	0	1	1	VT	P	W/N	Yes	Egypt	Dairy	11/10/2012	12/14/2012	35	\$16,450	\$910	E	0	0	1	0	0	1	S	1	0	0	0	1	association;Definno	10	2	12	6	1	7	5	0	0	0	5	
A-M-369	Edward Doherty	M	1	0	1	CO	P	W/N	Yes	India	Flexible	8/9/2013	8/23/2013	15	\$7,050	\$0	O	0	1	0	0	0	1	S	1	0	0	0	1	Lucknow Sunhara Mango Grower's Association	25	0	25	25	0	25	0	4	0	0	4	
A-M-267	Susan Corning	F	0	1	1	OA	P	W/N	No	Jordan	Flexible	9/17/2012	10/5/2012	19	\$8,930	\$27	T	1	0	0	0	0	1	S	1	0	0	0	1	The Jordanian Hashemite Fund for Human Development	2	13	15	2	13	15	0	8	0	0	8	
A-M-269	Annette Aitkenhead	F	0	1	1	NJ	P	W/H	Yes	Jordan	Flexible	10/7/2012	10/21/2012	15	\$7,050	\$60	T	1	0	0	0	0	1	M	0	0	0	1	1	Princess Basma Development Centre	200	50	250	0	0	0	3	0	0	0	3	
A-M-274	Jamieson Scott	M	1	0	1	CA	G		No	Jordan	Flexible	11/2/2012	12/4/2012	23	\$10,810	\$2,700	T	1	0	0	0	0	1	S	1	0	0	0	1	Princess Basma Development Centre	62	65	127	1	0	1	0	0	0	0	7	
A-M-283	Jorge Juliano	M	1	0	1	OR	F	W/H	No	Jordan	Flexible	12/7/2012	12/22/2012	16	\$7,520	\$670	T	1	0	0	0	0	1																			

A-M-302W	Heather Davidson	F	0	1	1	MA	E	W/N	Yes	Lebanon	Flexible	2/15/2013	2/28/2013	14	\$6,580	\$3,229	E	0	0	1	0	0	1	S	1	0	0	0	1	Green Hand	5	2	7	0	0	0	0	0	0	0	2	2	
A-M-307W	Steven Pao	M	1	0	1	VA	P	D	Yes	Lebanon	Flexible	3/2/2013	3/15/2013	14	\$6,580	\$0	T	1	0	0	0	0	1	S	1	0	0	0	1	Chamber of Commerce, Industry and Agriculture in Saïda and the South	1	3	4	0	0	0	0	1	0	0	0	1	
A-M-312	Bruce Harte	M	1	0	1	MI	E	D	No	Lebanon	Flexible	3/16/2013	3/23/2013	8	\$3,760	\$0	T	1	0	0	0	0	1	S	1	0	0	0	1	American University of Beirut (AUB) – Faculty of Agricultural and Food Sciences (FAFS)	23	39	62	0	0	0	0	1	0	0	0	0	1
A-M-313	Rafael Auras	M	1	0	1	MI	E	D	No	Lebanon	Flexible	3/16/2013	3/23/2013	8	\$3,760	\$0	T	1	0	0	0	0	1	S	1	0	0	0	1	American University of Beirut (AUB) – Faculty of Agricultural and Food Sciences (FAFS)	23	39	62	0	0	0	0	1	0	0	0	0	1
A-M-314W	Gary Bullen	M	1	0	1	NC	E	W/N	Yes	Lebanon	Flexible	3/16/2013	3/26/2013	11	\$5,170	\$0	T	1	0	0	0	0	1	S	1	0	0	0	1	Biomass	1	1	2	0	0	0	0	1	0	0	0	0	1
A-M-321	Susie Qashu	F	0	1	1	AZ	E	D	No	Lebanon	Flexible	3/19/2013	4/16/2013	29	\$13,630	\$60	E	0	0	1	0	0	1	S	1	0	0	0	1	Green Hand	36	10	46	30	8	38	0	0	0	0	0	4	4
A-M-358	Florence Wagner	F	0	1	1	AZ	P	D	Yes	Lebanon	Flexible	5/24/2013	6/21/2013	29	\$13,630	\$4,600	T	1	0	0	0	0	1	S	1	0	0	0	1	Beirut Arab University (BAU) - Research Center for Environment and Development (RCED)	8	16	24	8	16	24	0	1	0	0	0	0	1
A-M-359	David I. Wagner	M	1	0	1	AZ	N	D	No	Lebanon	Flexible	5/24/2013	6/21/2013	29	\$13,630	\$4,600	T	1	0	0	0	0	1	S	1	0	0	0	1	Beirut Arab University (BAU) - Research Center for Environment and Development (RCED)	10	40	50	0	0	0	0	0	1	0	0	0	1
A-M-268	Henry Fredrick Garcia-Alva	M	1	0	1	CA	P	HW	No	Lebanon	Horticulture	9/21/2012	10/5/2012	15	\$7,050	\$0	T	1	0	0	0	0	1	S	1	0	0	0	1	Green Hand	51	44	95	30	0	30	11	0	0	0	0	11	
A-M-282	Luis Manrique	M	1	0	1	HI	P	D	No	Lebanon	Horticulture	12/7/2012	12/20/2012	14	\$6,580	\$3,070	T	1	0	0	0	0	1	S	1	0	0	0	1	American Near East Refugee Aid (ANERA)	52	18	70	49	18	67	3	0	0	0	0	0	3
A-M-335	Wayne Schoper	M	1	0	1	MN	P	D	No	Lebanon	Horticulture	5/5/2013	5/17/2013	13	\$6,110	\$3,045	T	1	0	0	0	0	1	S	1	0	0	0	1	ALFA co Trade	8	2	10	1	0	1	0	2	0	0	0	2	
A-M-340	James Correll	M	1	0	1	AR	E	W/N	No	Lebanon	Horticulture	5/8/2013	5/22/2013	15	\$7,050	\$4,805	T	1	0	0	0	0	1	S	1	0	0	0	1	Arcenciel;Hariri Foundation;Rene Moawad Foundation;Safadi foundation	24	2	26	11	4	15	0	3	0	0	0	0	3
A-M-341W	Mohamed Abdel Rahman	M	1	0	1	NC	E	W/N	Yes	Lebanon	Horticulture	5/14/2013	5/23/2013	10	\$4,700	\$359	T	1	0	0	0	0	1	S	1	0	0	0	1	Rene Moawad Foundation	30	20	50	6	1	7	1	6	0	0	0	7	
A-M-343W	Mickey Foley	M	1	0	1	OR	P	W/N	Yes	Lebanon	Horticulture	5/8/2013	5/23/2013	16	\$7,520	\$4,560	T	1	0	0	0	0	1	S	1	0	0	0	1	FARM FRESH	15	11	26	3	5	8	1	3	0	0	0	4	
A-M-347	Yurij Bihun	M	1	0	1	VT	P	W/N	No	Lebanon	Horticulture	5/14/2013	5/26/2013	13	\$6,110	\$733	T	1	0	0	0	0	1	S	1	0	0	0	1	Lebanon Mountain Trail Association	10	8	18	1	1	2	0	0	0	0	0	4	4
A-M-279	Sergio Espinoza	M	1	0	1	UT	P	WH	Yes	Lebanon	Small Ruminants	12/3/2012	12/17/2012	15	\$7,050	\$540	T	1	0	0	0	0	1	P	0	0	1	0	1	Biomass;Le Bon Lait;The Agricultural Cooperative for Raising Livestock- Saghbeen	21	2	23	0	0	0	1	0	0	0	0	0	1
A-M-280	Archie Devore	M	1	0	1	NE	Rtd	W/N	Yes	Lebanon	Small Ruminants	12/4/2012	12/18/2012	15	\$7,050	\$902	T	1	0	0	0	0	1	S	1	0	0	0	1	ALFA co Trade;Biomass;Chamber of Commerce, Industry and Agriculture of Zahle and the Bekaa;AIDCO;Saint Joseph University - Higher Institute for Mediterranean Agricultural Engineers	26	3	29	25	10	35	4	2	0	0	0	0	6
A-M-286L	Roger Ellis	M	1	0	1	NY	P	D	Yes	Lebanon	Small Ruminants	1/5/2013	1/19/2013	15	\$7,050	\$1,530	T	1	0	0	0	0	1	S	1	0	0	0	1	LibanVet	68	9	77	0	0	0	3	0	0	0	0	3	
A-M-292	Barakat Mahmoud	M	1	0	1	MS	E	D	Yes	Lebanon	Small Ruminants	1/12/2013	1/31/2013	20	\$9,400	\$3,360	T	1	0	0	0	0	1	S	1	0	0	0	1	Chamber of Commerce, Industry and Agriculture in Saïda and the South	3	1	4	3	1	4	2	0	0	0	0	2	
A-M-296	Daniel Considine	M	1	0	1	WI	F	W/N	No	Lebanon	Small Ruminants	2/16/2013	3/1/2013	14	\$6,580	\$20	T	1	0	0	0	0	1	S	1	0	0	0	1	The Agricultural Cooperative for Raising Livestock- Saghbeen;Jihad Daher Farm;Group of Farmers- Bar Elias	16	0	16	0	0	0	3	0	0	0	0	0	3
A-M-303	Sergio Espinoza	M	1	0	1	UT	P	WH	Yes	Lebanon	Small Ruminants	2/9/2013	3/3/2013	23	\$10,810	\$1,460	T	1	0	0	0	0	1	S	1	0	0	0	1	Lakkis Farms;Skaff Dairy Farm	8	3	11	0	0	0	2	4	0	0	0	6	
A-M-326L	Gary Geisler	M	1	0	1	AK	P	W/N	Yes	Lebanon	Small Ruminants	4/17/2013	5/1/2013	15	\$7,050	\$5,203	T	1	0	0	0	0	1	S	1	0	0	0	1	Khair Al Jarah Farm;Abdullah Khoury Farm;Elie Abu Akil Farm;Toufeek Asouf Farm;Toufeek Slieman Farm;Le Bon Lait;Liban Lait Farm;Coop Livestock Husbandry Forage production & Agro Processing in Akkar m.m.;Feedco Farm	60	0	60	8	0	8	0	9	0	0	0	0	9
A-M-330	Walter Edward Hylton	M	1	0	1	VA	P	W/N	Yes	Lebanon	Small Ruminants	4/18/2013	5/4/2013	17	\$7,990	\$5,843	T	1	0	0	0	0	1	S	1	0	0	0	1	LibanVet	335	10	345	8	0	8	0	5	0	0	0	5	
A-M-336	Archie Devore	M	1	0	1	NE	Rtd	W/N	Yes	Lebanon	Small Ruminants	5/5/2013	5/18/2013	14	\$6,580	\$3,540	T	1	0	0	0	0	1	S	1	0	0	0	1	Group of dairy farmers in North Lebanon	56	1	57	33	0	33	2	0	0	0	0	2	
A-M-338	John Hooper	M	1	0	1	MN	F	W/N	No	Lebanon	Small Ruminants	5/5/2013	5/18/2013	14	\$6,580	\$3,450	T	1	0	0	0	0	1	S	1	0	0	0	1	Group of dairy farmers in North Lebanon	6	0	6	6	0	6	1	2	0	0	0	3	
A-M-370	Damon A. Szymanski	M	1	0	1	WI	Rtd	W/N	Yes	Lebanon	Small Ruminants	8/17/2013	8/26/2013	10	\$4,700	\$0	T	1	0	0	0	0	1	S	1	0	0	0	1	Elie Abu Akil Farm;Abdullah Khoury Farm;Feedco Farm;Khaled Mansour Farm;Toufeek Asouf Farm;Liban Lait Farm;Khair Al Jarah Farm;Le Bon Lait;Toufeek Slieman Farm;Coop Livestock Husbandry Forage production & Agro Processing in Akkar m.m.	1	5	6	0	0	0	3	0	0	0	0	0	3
A-M-278	Ayla Ficken	F	0	1	1	NC	P	D	No	Morocco	Flexible	12/1/2012	12/14/2012	14	\$6,580	\$2,990	E	0	0	1	0	0	1	M	0	0	0	1	1	Maroc Taswiq	5	3	8	0	0	0	6	0	0	0	0	6	
A-M-291	Charles Mutz	M	1	0	1	GA	P	W/N	Yes	Morocco	Flexible	1/14/2013	1/30/2013	17	\$7,990	\$80	E	0	0	1	0	0	1	M	0	0	0	1	1	Maroc Taswiq	10	8	18	8	6	14	8	0	0	0	0	8	
A-M-324	Ann W. Harman	F	0	1	1	VA	F	W/N	No	Morocco	Flexible	4/13/2013	4/28/2013	16	\$7,520	\$0	T	1	0	0	0	0	1	P	0	0	1	0	1	Maroc Taswiq	38	3	41	38	3	41	2	0	0	0	0	2	
A-M-352	Lyn Nelson	F	0	1	1	NY	P	W/N	Yes	Morocco	Flexible	5/20/2013	6/8/2013	20	\$9,400	\$286	E	0	0	1	0	0	1	M	0	0	0	1	1	Femmes de Marrakech	0	39	39	0	8	8	7	0	0	0	0	7	
A-M-354	Mesha Munyan	F	0	1	1	WA	P	W/N	No	Morocco	Flexible	6/4/2013	6/15/2013	12	\$5,640	\$40	T	1	0	0	0	0	1	F	0	1	0	0	1	Cooperative Al Khozama	6	7	13	5	7	12	4	0	0	0	0	4	
A-M-356	Laura E. Mijares	F	0	1	1	NM	P	W/N	No	Morocco	Flexible	6/1/2013	6/15/2013	15	\$7,050	\$2,230	T	1	0	0	0	0	1	F	0	1	0	0	1	Tizizwa Cooperative	13	4	17	13	4	17	6	0	0	0	0	6	
A-M-357	Victor Gonzalez	M	1	0	1	WA	F	W/H	Yes	Morocco	Flexible	6/4/2013	6/15/2013	12	\$5,640	\$0	T	1	0	0	0	0	1	F	0	1	0	0	1	Cooperative Al Khozama	6	7	13	13	5	18	5	0	0	0	0	5	
A-M-374	Robert A. Bond	M	1	0	1	NC	Rtd	W/N	No	Morocco	Flexible	8/31/2013	9/11/2013	12	\$5,640	\$0	O	0	1	0	0	0	1	M	0	0	0	1	1	Maroc Taswiq	7	6	13	7	6	13	0	7	0	0	0	7	
A-M-375	Catherine Lins	F	0	1	1	WI	P	W/N	No	Morocco	Flexible	8/31/2013	9/14/2013	15	\$7,050	\$0	O	0	1	0	0	0	1	S	1	0	0	0	1	Association du Grand Atlas	5	15	20										

Farmer-to-Farmer Program Reporting Table Proposal
 Table 2: Host Baseline Data

Host	Country	Country FTF Project	Institution Type	Institution Type							Date of Baseline Assessment	Potential Beneficiaries					Baseline Data (as appropriate)										
				Cooperatives and Associations	Individual Private Farmers	Other Private Enterprises	Non-Profit, Public Interest NGOs	Public and Private Education Institutions	Rural Financial Institutions	Public Sector Agencies		Total	Members/Owners	Employees	Clients	Family members	Total	Net annual income (US\$)	Annual gross sales (US\$)	Membership	OCAAT Rating	Value of Rural/Agricultural Loans (\$)	Number of rural and/or agricultural loans	Area of Environmenta / Natural Resource (ha)	People with environmental/ safety threat		
Adet Agricultural Research Center	Ethiopia	Flexible	P	0	0	1	0	0	0	0	1	4/4/2008	0	0	0	0	0	\$0	\$0	0	0.00	\$0	0	0	0	0	
Al-Intelak Cooperative	Egypt	Horticulture	C	1	0	0	0	0	0	0	1	7/9/2010	14	3	21	152	190	\$9,520	\$83,160	0	2.60	\$0	0	0	0	0	
Al-Wadi Factory	Egypt	Horticulture	P	0	0	1	0	0	0	0	1	1/7/2009	1	60	6,000	24,244	30,305	\$83,669	\$785,196	0	3.10	\$0	0	0	0	0	
Beba Agricultural Technical School	Egypt	Horticulture	G	0	0	0	0	0	0	0	1	2/20/2010	1,541	106	0	6,588	8,235	\$137	\$409	0	3.00	\$0	0	0	0	0	
Ei-Mataana Association	Egypt	Horticulture	C	1	0	0	0	0	0	0	1	1/11/2009	8	8	5	84	105	\$5,760	\$10,909	0	2.50	\$0	0	0	0	0	
Ei-Nogoa Association	Egypt	Horticulture	C	1	0	0	0	0	0	0	1	1/1/2009	120	6	6	528	660	\$4,545	\$10,909	0	2.50	\$0	0	0	0	0	
Horticultural Export Improvement Association (HEIA)	Egypt	Horticulture	C	1	0	0	0	0	0	0	1	1/18/2010	497	50	0	2,188	2,735	\$599,013	\$625,358	0	4.20	\$0	0	0	0	0	
Islamic Charity Group	Egypt	Horticulture	N	0	0	0	1	0	0	0	1	2/2/2010	5	5	0	40	50	\$3,600	\$0	0	2.80	\$0	0	15	0	0	
Sharq Tamia Smallholders Association	Egypt	Horticulture	C	1	0	0	0	0	0	0	1	1/1/2009	310	12	11	1,332	1,665	\$2,181	\$6,181	0	2.70	\$0	0	0	0	0	
Tiba Cooperative	Egypt	Horticulture	C	1	0	0	0	0	0	0	1	2/3/2010	10	3	24	148	185	\$6,800	\$59,400	0	2.90	\$0	0	0	0	0	
West Nubaria Rural Development Project (WNRDP) Lab	Egypt	Horticulture	G	0	0	0	0	0	0	0	1	1/3/2009	159	8	159	1,304	1,630	\$13,000	\$22,000	0	3.80	\$0	0	0	0	0	
Gerga Agricultural Technical School	Egypt	Livestock & Dairy	E	0	0	0	0	1	0	0	1	6/1/2009	1,063	65	0	4,512	5,640	\$3,174	\$6,954	0	2.90	\$0	0	0	0	0	
Nasser Agricultural Technical Secondary School	Egypt	Livestock & Dairy	P	0	0	1	0	0	0	0	1	6/1/2009	1,642	200	0	7,368	9,210	\$1,256	\$3,636	0	3.30	\$0	0	0	0	0	
West Nubaria Cooperative	Egypt	Livestock & Dairy	N	0	0	0	1	0	0	0	1	1/3/2009	53	3	23	316	395	\$36,040	\$314,820	0	2.60	\$0	0	0	0	0	
Africa 70	Lebanon	Flexible	C	1	0	0	0	0	0	0	1	4/7/2009	1	11	2,500	7,536	10,048	\$0	\$0	0	4.50	\$0	0	0	0	0	
Arsal Rural Development Association (ARDA)	Lebanon	Horticulture	N	0	0	0	1	0	0	0	1	4/6/2009	64	20	40	372	496	\$20,000	\$300,000	64	4.10	\$0	0	470	0	0	
Copp Livestock Husbandry Forage production & Agro Processing in Akkar m.m.	Lebanon	Horticulture	C	1	0	0	0	0	0	0	1	6/19/2009	120	7	130	771	1,028	\$0	\$400,000	120	3.50	\$0	0	0	0	0	
Fresh World International (FWI)	Lebanon	Horticulture	P	0	0	1	0	0	0	0	1	5/25/2009	3	28	12	129	172	\$0	\$50,000	0	5.00	\$0	0	1	0	0	
Hairi Foundation	Lebanon	Horticulture	N	0	0	0	1	0	0	0	1	5/7/2009	12	14	3,200	9,678	12,904	\$0	\$0	0	4.80	\$0	0	0	0	0	
LBLI Project implemented by ACIDI/VOCA and AED	Lebanon	Horticulture	N	0	0	0	1	0	0	0	1	4/23/2009	0	12	15	81	108	\$0	\$0	0	5.00	\$0	0	0	0	0	
La Libanaise pour les Forages	Lebanon	Horticulture	P	0	0	1	0	0	0	0	1	6/15/2009	3	2	20	75	100	\$0	\$2,000,000	0	3.60	\$0	0	0	0	0	
Safadi foundation	Lebanon	Horticulture	N	0	0	0	1	0	0	0	1	12/18/2008	2	160	430	1,776	2,368	\$3,000	\$5,000	2	4.30	\$0	0	0	0	0	
Doroub	Lebanon	Small Ruminants	P	0	0	1	0	0	0	0	1	3/24/2009	3	10	70	249	332	\$100,000	\$2,000,000	0	4.40	\$0	0	8	70	0	
LibanVet	Lebanon	Small Ruminants	P	0	0	1	0	0	0	0	1	4/2/2009	3	12	2,500	7,545	10,060	\$100,000	\$500,000	0	4.70	\$0	0	0	0	0	
Rene Moawad Foundation	Lebanon	Small Ruminants	N	0	0	0	1	0	0	0	1	5/26/2009	9	115	185,884	558,024	744,032	\$0	\$0	0	4.50	\$0	0	0	0	0	0
Total FY 2009				8	0	6	7	1	0	2	25		5,643	920	201,050	635,040	842,653	991,695	7,183,932	186	87.3	0	0	494	70		
Honey Unit	Egypt	Flexible	N	0	0	0	1	0	0	0	1	5/20/2010	0	5	1,100	4,420	5,525	\$2,250	\$0	0	3.20	\$0	0	0	0	0	
AlAmi Agricultural Cooperative	Egypt	Horticulture	E	0	0	0	0	1	0	0	1	2/18/2010	59	0	0	236	295	\$42,480	\$0	0	2.40	\$0	0	0	0	0	
Bangar Al-Sokar Cooperative	Egypt	Horticulture	C	1	0	0	0	0	0	0	1	3/20/2010	168	5	19	768	960	\$114,240	\$997,920	0	2.90	\$0	0	0	0	0	
Bani-Mazar Agricultural Technical School	Egypt	Horticulture	E	0	0	0	0	1	0	0	1	1/8/2009	865	147	0	4,048	5,060	\$450	\$1,178	0	2.70	\$0	0	0	0	0	
Ebshway Agricultural Technical School	Egypt	Horticulture	E	0	0	0	0	1	0	0	1	3/28/2010	843	173	0	4,064	5,080	\$3,900	\$26,000	0	2.40	\$0	0	0	0	0	
Ei-Mataana-CDA	Egypt	Horticulture	N	0	0	0	1	0	0	0	1	10/3/2011	58	2	0	240	300	\$0	\$0	0	1.90	\$0	0	0	0	0	
P&J	Egypt	Horticulture	P	0	0	1	0	0	0	0	1	12/16/2009	5	101	0	424	530	\$3,260	\$0	0	3.40	\$0	0	0	0	0	
PODCO	Egypt	Horticulture	N	0	0	0	1	0	0	0	1	3/25/2010	0	50	0	200	250	\$150,000	\$100,000	0	3.30	\$0	0	0	0	0	
Sohag Agricultural Technical School	Egypt	Horticulture	E	0	0	0	0	1	0	0	1	1/8/2009	1,390	162	0	6,208	7,760	\$607	\$860	0	2.50	\$0	0	0	0	0	
Korna Agricultural Technical School	Egypt	Livestock & Dairy	E	0	0	0	0	1	0	0	1	1/6/2009	1,014	92	0	4,424	5,530	\$2,818	\$6,818	0	2.90	\$0	0	0	0	0	
Al-Bostan Cooperative	Egypt	Livestock & Dairy	C	1	0	0	0	0	0	0	1	1/3/2009	120	4	17	564	705	\$81,600	\$712,800	0	2.80	\$0	0	0	0	0	
Dairy Unit	Egypt	Livestock & Dairy	N	0	0	0	1	0	0	0	1	2/4/2010	0	8	360	1,472	1,840	\$2,240	\$0	0	3.10	\$0	0	0	0	0	
Hmam Cooperative	Egypt	Livestock & Dairy	C	1	0	0	0	0	0	0	1	6/1/2009	0	0	0	0	0	\$0	\$0	0	0.00	\$0	0	0	0	0	
Ahmad M.S. Al Dirani & Bros Factory	Lebanon	Horticulture	P	0	0	1	0	0	0	0	1	4/19/2010	3	200	1,000	3,609	4,812	\$50,000	\$250,000	0	3.30	\$0	0	0	0	0	
AIDCO	Lebanon	Horticulture	P	0	0	1	0	0	0	0	1	9/2/2009	3	12	50	195	260	\$300,000	\$1,500,000	0	3.40	\$0	0	0	0	0	
ALFA co Trade	Lebanon	Horticulture	P	0	0	1	0	0	0	0	1	9/2/2009	3	15	200	654	872	\$150,000	\$1,500,000	0	4.40	\$0	0	0	0	0	
Arcenciel	Lebanon	Horticulture	N	0	0	0	1	0	0	0	1	4/7/2009	12	450	16,059	49,563	66,084	\$432,000	\$10,400,000	0	4.60	\$0	0	0	0	0	
Chamber of Commerce, Industry and Agriculture of Zahle and the Bekaa	Lebanon	Horticulture	G	0	0	0	0	0	0	1	1	4/2/2009	0	5	250	765	1,020	\$36,000	\$0	0	4.40	\$0	0	0	0	0	
Creadel-Liban	Lebanon	Horticulture	C	1	0	0	0	0	0	0	1	12/4/2009	16	0	200	648	864	\$0	\$0	0	4.10	\$0	0	0	0	0	
Souk El Tayeb-Lebanon's Farmers Markets	Lebanon	Horticulture	N	0	0	0	1	0	0	0	1	5/11/2009	1	5	70	228	304	\$0	\$85,000	0	4.10	\$0	0	0	0	0	
Total FY 2010				4	0	4	6	5	0	1	20		4,560	1,436	19,325	82,730	108,051	1,371,845	15,580,576	0	61.8	0	0	0	0	0	
Egypt Enterprise Development Project (EEDP)	Egypt	Flexible	N	0	0	0	1	0	0	0	1	1/4/2011	7	34	0	164	205	\$10	\$20	250	2.60	\$0	0	0	0	0	
Armant Association	Egypt	Horticulture	N	0	0	0	1	0	0	0	1	10/3/2011	40	0	0	160	200	\$0	\$0	0	1.90	\$0	0	0	0	0	
Beit Khalaf Association	Egypt	Horticulture	N	0	0	0	1	0	0	0	1	10/3/2011	134	0	0	536	670	\$0	\$0	0	1.90	\$0	0	0	0	0	
Egyptian Union of Producers and Exporters of Horticultural Crops (UPEHC)	Egypt	Horticulture	N	0	0	0	1	0	0	0	1	5/21/2010	1,500	200	950	10,600	13,250	\$727,272	\$0	0	3.40	\$0	0	0	0	0	
Ei-Hekma Association	Egypt	Horticulture	N	0	0	0	1	0	0	0																	

Fayoum Agro Organic (FAOD)	Egypt	Horticulture	N	0	0	0	1	0	0	0	1	3/8/2012	165	10	4000	16699	20874	\$4,166	0	165	1.60	0	0	0	0	
Hand in Hand Association (HIHA)	Egypt	Horticulture	N	0	0	0	1	0	0	0	1	4/30/2012	3	25	1500	6111	7639	\$3,000	0	3	1.30	0	0	0	0	
New Lands Women Association for Integrated Services (NLWAIS)	Egypt	Horticulture	C	1	0	0	0	0	0	0	1	5/12/2012	8	30	1000	4151	5189	\$2,500	0	5	1.50	0	0	0	0	
Alliance for Arab Women	Egypt	Flexible	N	0	0	0	1	0	0	0	1	5/20/2012	3	2	550	2219	2774	\$9,000	0	3	1.20	0	0	0	0	
Assuit Business Women association	Egypt	Horticulture	N	0	0	0	1	0	0	0	1	6/6/2012	75	145	26000	104879	131099	\$583,333	0	0	2.20	2,500	0	0	0	0
Grants, Innovation, Technology, Transfer Center (GITTC)	Egypt	Flexible	E	0	0	0	0	1	0	0	1	8/5/2012	0	20	0	79	99	0	0	2.70	0	0	0	0	0	
Jordan National Centre for Research & Development	Jordan	Flexible	N	0	0	0	1	0	0	0	1	10/4/2012	5	50	500000	2000219	2500274	\$350,000	0	0	3.90	0	0	0	0	0
Jordan Society for Organic Farming	Jordan	Flexible	N	0	0	0	1	0	0	0	1	10/4/2012	50	3	20	291	364	\$4,000	0	0	3.60	0	0	0	0	0
WADA The Women's Association of Deir El Ahmar	Lebanon	Horticulture	N	0	0	0	1	0	0	0	1	6/22/2011	50	50	600	2099	2799	\$0	0	0	3.40	0	0	0	0	0
Organic Baking Company	Lebanon	Horticulture	P	0	0	1	0	0	0	0	1	10/3/2011	6	4	1	32	43	\$0	0	6	5.00	500,000	0	0	0	0
Faculty of Agricultural Engineering and Veterinary Medicine, Lebanese University	Lebanon	Small Ruminants	E	0	0	0	0	1	0	0	1	12/1/2011	0	10	300	929	1239	\$0	0	0	1.70	0	0	0	0	0
Hors Ehd Nature Reserve	Lebanon	Horticulture	C	1	0	0	0	0	0	0	1	2/1/2012	7	9	30000	90047	120063	\$10,000	0	0	3.60	0	0	0	0	0
American University of Beirut (AUB) – Faculty of Agricultural and Food Sciences (FAFS)	Lebanon	Small Ruminants	E	0	0	0	0	1	0	0	1	5/10/2012	0	4	0	11	15	\$0	0	0	3.30	0	0	0	0	0
American Near East Refugee Aid (ANERA)	Lebanon	Flexible	N	0	0	0	1	0	0	0	1	6/11/2012	5	9	150	491	655	\$0	0	0	5.00	300,000,000	0	0	0	0
Biomass	Lebanon	Horticulture	P	0	0	1	0	0	0	0	1	4/28/2011	6	50	15	212	283	0	\$500,000	0	4.60	600,000	5	50	0	0
Total FY 2012				6	0	2	11	4	0	1	24		907	579	591,088	2,315,523	2,908,097	1,640,445	1,966,128	275	73	301,102,500	5	50	-	
British Gas-Farmer Group	Egypt	Flexible	C	1	0	0	0	0	0	0	1	3/1/2013	15	0	0	0	0	\$0	\$0	0	n/a	\$0	0	0	0	0
Egyptian Biodynamic Association (EBDA)	Egypt	Horticulture	N	0	0	0	1	0	0	0	1	4/9/2012	0	0	6	23	29	\$0	\$0	0	n/a	\$0	0	0	0	0
Asfoun Association	Egypt	Horticulture	C	1	0	0	0	0	0	0	1	4/29/2013	122	0	0	487	609	\$0	\$0	0	n/a	\$0	0	0	0	0
Almoustaqbal Association (El Selsela)	Egypt	Horticulture	C	1	0	0	0	0	0	0	1	4/25/2013	121	0	0	483	604	\$6,200	\$3,200	0	n/a	\$0	0	0	0	0
The Egyptian Association for Sheep and Goat (EASG)	Egypt	Livestock & Dairy	C	1	0	0	0	0	0	0	1	11/1/2011	350	2	0	1407	1759	\$833	\$0	0	n/a	\$0	0	0	0	0
Definno	Egypt	Livestock & Dairy	C	1	0	0	0	0	0	0	1	4/22/2013	129	5	215	1395	1744	\$0	\$233,878	129	n/a	\$0	0	0	0	0
Beirut Arab University (BAU) - Research Center for Environment and Development (RCED)	Lebanon	Flexible	E	0	0	0	0	1	0	0	1	12/15/2012	20	15	6	80	121	\$0	0	0	n/a	\$0	0	0	0	0
Green Hand	Lebanon	Horticulture	N	0	0	0	1	0	0	0	1	7/9/2012	0	0	202	605	807	\$0	0	0	n/a	\$0	0	0	0	0
The Agricultural Cooperative for Raising Livestock- Saghbeen	Lebanon	Small Ruminants	C	1	0	0	0	0	0	0	1	10/8/2012	27	4	3	135	169	\$0	0	0	n/a	\$0	0	0	0	0
Jihad Daher Farm	Lebanon	Small Ruminants	P	0	0	1	0	0	0	0	1	9/15/2012	3	6	5	15	29	\$0	0	0	n/a	\$0	0	0	0	0
Group of Farmers- Bar Elias	Lebanon	Small Ruminants	F	0	1	0	0	0	0	0	1	9/10/2012	10	25	30	50	115	\$0	0	0	n/a	\$0	0	0	0	0
Saint Joseph University - Higher Institute for Mediterranean Agricultural Engineers	Lebanon	Small Ruminants	E	0	0	0	0	1	0	0	1	2/10/2012	20	20	150	100	290	\$0	0	0	n/a	\$0	0	0	0	0
Skaff Dairy Farm	Lebanon	Small Ruminants	P	0	0	1	0	0	0	0	1	1/15/2013	5	22	30	25	82	\$0	0	0	n/a	\$0	0	0	0	0
Lakkis Farms	Lebanon	Small Ruminants	F	0	1	0	0	0	0	0	1	1/5/2013	4	65	1000	10	1079	\$0	0	0	n/a	\$0	0	0	0	0
Maroc Taswiq	Morocco	Flexible	G	0	0	0	0	0	0	1	1	11/20/2012	2010	134	0	8575	10719	\$0	0	0	n/a	\$0	0	0	0	0
Zgolli Frere Farmer group	Tunisia	Flexible	C	1	0	0	0	0	0	0	1	2/10/2013	260	0	0	0	0	\$0	0	0	n/a	\$0	0	0	0	0
CSOs of SanAndres, Providencia and Santa Catalina	Colombia	Flexible	N	0	0	0	1	0	0	0	1	n/a	0	0	0	0	0	\$0	0	0	n/a	\$0	0	0	0	0
Lucknow Sunhara Mango Grower's Association	India	Flexible	C	1	0	0	0	0	0	0	1	n/a	0	0	0	0	0	\$0	0	0	n/a	\$0	0	0	0	0
Ministry of Agriculture	Jordan	Flexible	G	0	0	0	0	0	0	1	1	7/1/2013	0	5017	5000	40067	50084	\$0	0	0	n/a	\$0	0	0	0	0
IUCN - The International Union for Conservation of Nature	Jordan	Flexible	N	0	0	0	1	0	0	0	1	5/15/2013	0	0	70	279	349	\$0	0	0	n/a	\$0	0	0	0	0
Kifah Cooperative Society	Jordan	Flexible	C	1	0	0	0	0	0	0	1	5/9/2013	0	0	50	199	249	\$0	0	0	n/a	\$0	0	0	0	0
Royal Botanical Gardens of Jordan (RBG)	Jordan	Flexible	N	0	0	0	1	0	0	0	1	4/10/2013	0	0	10	39	49	\$0	0	0	n/a	\$0	0	0	0	0
Souztexile Association	Kyrgyzstan	Flexible	C	1	0	0	0	0	0	0	1	n/a	0	0	0	0	0	\$0	0	0	n/a	\$0	0	0	0	0
Lebanon Mountain Trail Association	Lebanon	Horticulture	C	1	0	0	0	0	0	0	1	1/31/2012	150	2	60	635	847	\$150,000	30000	0	n/a	\$0	0	0	0	0
FARM FRESH	Lebanon	Horticulture	P	0	0	1	0	0	0	0	1	2/4/2013	5	20	40	194	259	\$318,000	1300000	0	n/a	\$0	0	0	0	0
Group of dairy farmers in North Lebanon	Lebanon	Small Ruminants	F	0	1	0	0	0	0	0	1	12/10/2012	15	115	30	479	639	\$1,419,000	7950000	0	n/a	\$0	0	0	0	0
Tizizwa Cooperative	Morocco	Flexible	C	1	0	0	0	0	0	0	1	6/11/2013	0	10	511	2083	2604	\$3,600	60015	14	n/a	\$0	0	0	0	0
Ies Femmes de Marrakech	Morocco	Flexible	C	1	0	0	0	0	0	0	1	6/3/2013	0	39	7	183	229	\$0	9200	0	n/a	\$0	0	0	0	0
Association du Grand Atlas	Morocco	Flexible	N	0	0	0	1	0	0	0	1	9/16/2013	150	17	0	667	834	\$0	0	150	n/a	\$0	0	0	0	0
Association Abdessamad Kenfaoui	Morocco	Flexible	C	1	0	0	0	0	0	0	1	9/16/2013	400	1	40	1763	2204	\$0	0	400	n/a	\$0	0	0	0	0
Total FY 2013				14	3	3	6	2	0	2	30		3,816	5,519	7,465	59,978	76,503	\$ 1,897,633	\$ 9,586,293	693	-	-	-	-	-	
Program Total													17,404	10,289	867,197	3,297,537	4,192,152	8,705,379	68,543,302	1,608	333	301,102,500	5	1,075	86	

Farmer-to-Farmer Program Reporting Table

Table 4: Cumulative Volunteer Public Outreach and Leveraging of Resources

Program		Number of Press Releases (issued by FTF implementing agency or volunteer) to local press/radio/TV media.	Number of media events by implementers and FTF volunteer.	Number of group presentations by implementers and FTF volunteers.	Number of public outreach activities (Total)	Estimated Value of Resources Leveraged by Grantee and Volunteers in the U.S. (U.S.\$)
MENA	FY09	9	0	17	26	\$15,319
	FY10	111	13	59	183	\$35,746
	FY11	40	2	54	96	\$44,621
	FY12	11	28	1	40	\$43,580
	FY13	70	134	17	221	\$192,646
	Program Total To-Date	241	177	148	566	\$331,912