APPENDIX 4

SUPPLEMENTARY DOCUMENTS AND STATISTICS

APPENDIX 4. Supplementary Documents and Statistics

4.1 Ministry of Agriculture and Land Reclamation

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APPENDIX 4.1 Ministry of Agriculture and Land Reclamation

4.1.1 General

In the Agriculture Sector of Egypt, the Ministry of Agriculture and Land Reclamation (MALR) takes a leading role to administrate the relevant stakeholders for developing their interests in agriculture as well as contributing to the national welfare such as food security. Figure 4.1.1 shows the organization chart of MALR at the Central level. There are eight sectors of administrations under the Minister and the Agriculture Research Center is also organized under the Minister apart from the administration. Agriculture Services and Follow-up Sector is one of the sectors to administrate the four central administrations for agriculture cooperation, seed production, testing & certification, land protection and agriculture quarantines. Other two sectors, namely Economic Affairs Sector and Agricultural Extension Sector are involved in the Steering Committee of the Project.

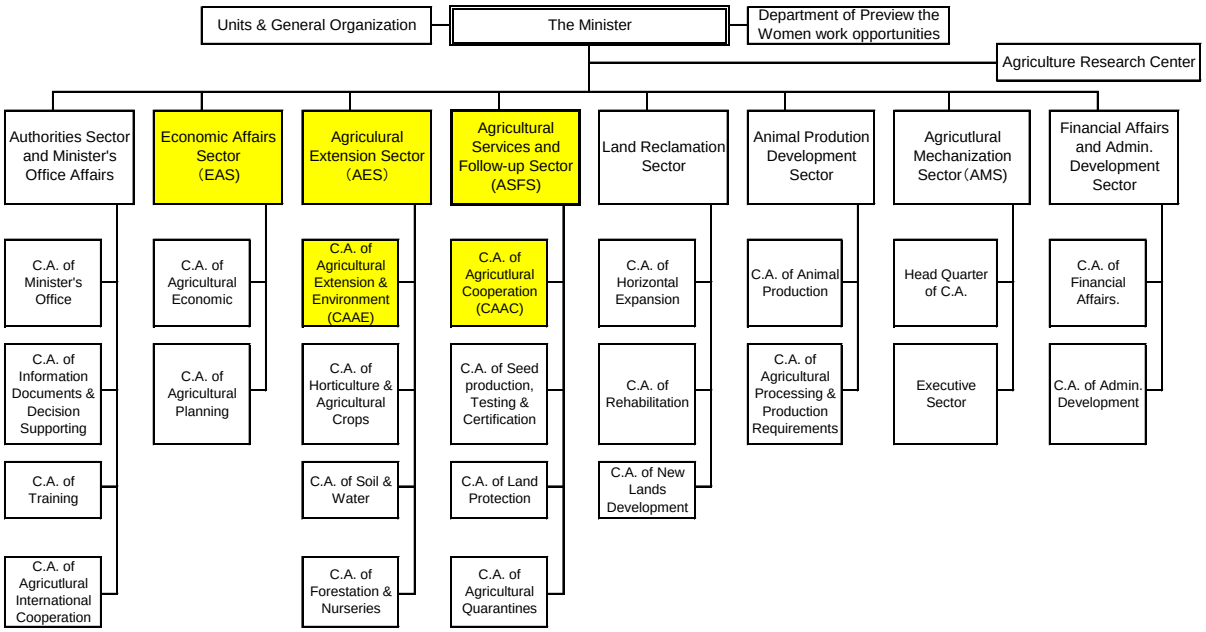


Figure 4.1.1 Organization Chart of the Ministry of Agriculture and Land Reclamation (MALR)

4.1.2 Agricultural Cooperative

Central Administration of Agricultural Cooperation (CAAC) under Agricultural Services & Follow Up Sector (ASFS) of the MALR is in charge of agricultural cooperation services. CAAC administrates agricultural marketing, financial & cooperative following up services and orientation and cooperation. Structural organization of CAAC consists of 4 departments on central level administrating agricultural cooperation affairs at each Governorate.

Based on the agricultural cooperatives law 120, multi-purpose agricultural cooperative and specialized agricultural cooperative societies have been organized as follows;

(Multi-purpose Cooperatives)

- Central level General Agricultural Cooperative Society
- Governorate level Central Agricultural Cooperative Society
- District level Combined Agricultural Cooperative Society
-Village level Local Agricultural Cooperative Society

(Specialized Cooperatives)

Only in village and Governorate level cooperatives are organized.

In Upper Egypt, the above cooperatives are organized as of 2010, April 30.

Table 4.1.1 The Number of Cooperative Societies in the Upper Egypt

No.	Governorates	Multi-Purpose Cooperative				Specialized Cooperative		Total
		Local	Combined	Central	Total	Village	Governorate	
1	Giza	160	8	1	169	33	4	206
2	Beni Sweef	221	7	1	229	12	3	244
3	El Fayoom	168	6	1	175	262	2	439
4	El Minia	342	9	1	352	-	10	362
5	Assuit	216	11	1	228	12	3	243
6	Sohage	266	11	1	278	2	4	284
7	Qena	193	8	1	202	3	2	207
8	Aswan	93	4	1	98	2	2	102
9	New Valley	39	-	1	40	1	1	42
10	El Aqsoer	26	1	-	27	-	-	27
Total		1724	65	9	1798	327	31	2156

Major activities of agricultural cooperative societies are Input materials supply and control of main crops such as wheat, maize, cotton.

(1) Local Multi-Purpose Cooperative's Activities

Local level cooperatives are part of a hierarchy of part of agricultural cooperatives that rises to the central agricultural cooperatives. All cooperatives are composed of an agricultural arm and a cooperative. The agricultural side of the cooperative has the following main responsibilities:

1) Protection of the lands within the cooperative jurisdiction-against infringements and to maintain rights
2) Record land ownership, maintain records and update them
3) Issue official documentation of ownership
4) Extension activities to the farmers offering technical support

The extension services include carrying out demonstration plots as well as traditional extension services of protection programs for crops such as cotton. Protection is cooperatively done to limit the spread of disease. It is more government driven and instructional that it is cooperative and exploratory. The extension services also cover other activities carried by other offices of the agricultural departments, such as water savings, pest control, animal husbandry and others to demonstrate their inputs and innovations. They therefore have access to other offices funds to finance their operations.

(2) Management of Local Multi-Purpose Cooperative

The cooperative part of the agricultural cooperative is a representative body of the farmers. This body approves the appointment of the cooperative manage, assigned by the agricultural department. The cooperative side is the more commercial side, which have the back deposits and are engaged in the distribution of agricultural inputs and marketing of agricultural outputs when that is possible. Distribution of inputs used to be to maintain equity in distribution.

All of the agricultural cooperatives carry out an election process of the board members every five years. The election and constitution of the board members is segmented according to number to of

members between the villages, if more than one village is represented. The elected board then elects the executive board and the chairman of the board, again for 5- year intervals.

The cooperative administration and staffs are divided between the following positions:

1) Head of the agricultural unit
2) Manager of the agricultural cooperative
3) Extension engineers
4) Agricultural cooperative engineers
5) Treasurer
6) Store Keeper
7) Cleaner
8) Writer
9) Field worker
10) Equipment technician
11) Night Guard

All of these positions are not present in every cooperative that was visited, nor is any one of the cooperatives staffed with all these positions. The large number of staff of all of the above positions are the extension and agricultural cooperative engineers in all the cooperatives.

The manager of the agricultural cooperative deals with other administrative responsibilities in addition to the general management of the cooperative if the positions are not filled, such as store inventory, treasurer. In five of the interviewed cooperatives the cooperative manager was indeed involved in other administrative responsibilities due to absence of these positions.

The head of the extension arm and engineers of the cooperative is responsible for protection of the lands from infringements. They therefore make field rounds. Thy also have the responsibility to levy penalties if farmers are not abiding any agreed upon crop structure.

4.1.3 Agricultural Extension Services

Central Administration of Agricultural Extension Services (CAAES) of the MALR is in charge of agricultural extension services. CAAES act not only for improving agricultural productivity but also for sustainable rural development. Structural organization of CAAES consists of 16 departments on central level, 4 development support communication centers (DSCC) and 9 extension regional departments (ERD). On village level, 194 extension centers and rural development centers are provided over the country.

(1) Major tasks of CAAES

- To decrease the production gap of strategic crops from a view point of national food security
- To strengthen linkages between research and extension activities.
- To develop and apply new extension approaches such as farmer's field school (FFS), farmer to farmer (FTF) etc.
- To promote bottom-up extension program development approach.
- To monitor implementation of extension program activities at governorate level.
- To organize and direct the training programs for both extension staff and farmers.
- To reply to new learning needs and interests of farmers.

- To help rural families to improve their quality of life by establishing micro & small project using local materials and products to generate income.

(2) Extension Centers

There are 194 extension centers at mother villages: fully equipped with audio-visual aids and training facilities, computers for electronic linkages with research. 4 to 6 extension experts are stationed at each center providing farmers with advice and guidance.

1) Extension Centers in Minia and Assuite Governorate

All extension centers in district level are part of the Central Department of Agricultural Extension. These centers were established as part of a policy move to improve the extension services to farmers by establishing independent centers from the cooperatives. The extension centers carry out some roles of extension that the extension offices in cooperatives do as far as extending technical assistance to the farmers. The centers however are specialized and better equipped to carry out the role of disseminating information and innovation of agricultural practices and products

In Minia 7 district level extension centers one in each district, were covered out of the governorate's 9 disricts. The remaining districts Mallawe and Dayr Muas in El Minia did not have extension centers. There are little differentiation between the village level extension centers or district level centers. It was often the case that center at village level or at district level served both levels throughout the district.

In Minia the extension centers interviewed were all established between. In Assuite the centers are somewhat older, dating from 1996 to 2000. The basic profile information about the centers is shown as follows:

Table 4.1.3 Basic Profile Information about Extension Center

Governorate	District	Area served in Feddan	Total Staff Number(technical staff with degrees)	Number of Villages served	Year established(operation commenced)
Minia	El Edwa	7,373	4(2)	7	2004
	El Minia Center	9,000	4(2)	5	2004
	Maghagha	15,000	4(2)	15	2004
	Matay Center	1,300	4(2)	9	2003
	Abu Korkas		4(2)	7	2003(2006)
	Beni Mazar	2,991	3(1)	5	1996
Assiut	Samalout	6,000	(2)	4	2004
	El Sahel	30,726	9(7)	4	1999
	Dayrout	19,000	8(6)	3	1998
	Assuit	6,931	5(3)	2	1997
	El Kosa	12,000	13(11)	11	1997
	El Fath	5,600	5(4)	6	1998(2000)
	Abu teeg	6,354	3(2)	4	1997
	Abnoub	1,860	5(3)	3	1996
	Manfaloot	12,000	5(3)	7	1997

As table shows the staff allocation to the majority of the centers show that the centers are understaffed and especially so of the technical staff required for the tasks of the center. All of the centers in El Minia are consistently understaffed. The overwhelming majority of the centers' staff is from the local

villages that the centers serve.

The centers' main activity was reported to be offering consultation to the farmers in response to inquiries farmers pose to centers. The other engagement of the centers is to offer awareness of national issues-sessions to the farmers. The training session's extension centers are engaged in, can be categorized as follows:

1) Technical agricultural information sharing sessions
2) National awareness raising campaigns (public health, environment, birth control, nutrition etc.)
3) Administrative awareness sessions-how to deal with local administration, access to services, etc.

Each center is expected to plan for and organize the implementation of 8 sessions per month. This goal is not always achieved due to lack of sufficient funds, as reported by the majority of the centers interviewed. The main channel of outreach to the farmers is through the field visits and personal interaction.

The sessions related to agricultural production support farmers in the practices of traditional crops and their growing techniques as well as animal husbandry. A select number of centers offered session that offer knowledge about opportunities for new practices or introduce new ideas.

The majority of the extension centers have a limited daily basis level of activity. The majority of the limitations, it has been reported to limitations on available resources. The employees do not have resources or equipment to help them reach out to the farmers, and no means of transportation, presentation material for sessions, fuel and not even stationary. The centers are supposed to have planned a minimum of 8 awareness raising session a month. This quota most of the times are not met for lack of resources to hold meetings. Individual meetings are held infield visits and field rounds.

The role of the center manager is to organize and coordinate the implementation of the sessions to the farmers. The specialized engineers make field visits, identify diseases and manage the demonstration farm. The extension officers carry out field visits and communicate with farmers whether by disseminating information or collecting inquiries. Another of their important activities is to manage the demonstration farm.

The training center staff receives at a minimum on a seasonal basis they receive refresher training about the cultivation practices and techniques of traditional crops-wheat, maize, cotton, etc. Apart from that training that the extension centers staff received in the past year was reported to have been minimal and in many centers no training at all either to the extension engineer or to the field officers.

Those who have received training have received training on extension techniques and use of presentation equipment, there was one or two records of technical training administered to the staff of the extension centers. Those centers with marginally qualified staff had benefit primarily from training through donor supported projects. The last record of any such training is in 2006.

There is therefore a high dependence on external technical support. The sources to which the centers have cited are:

1) Cairo research Center
2) Research Center in Seds and Beni Suef (for centers in El Minia)
3) Research Center in Malawi (for centers in El Minia)

4) Animal Research Center in Cairo
5) Research Station in Shadaweel Sohag
6) Research Station Arab Elawamer
7) Assuit University
8) The Center for Soil Analysis in the Agricultural Department of MALR
9) Internet Sites

The reference to the internet- system refers to a system known as ”FATCOIM” where internal (national ministerial) consultation takes place over the internet- or an intranet system. Extension offices send the inquiries to the specialists centrally in Cairo and receive responses back. This method was mentioned by a number of the centers and was more actively used by centers in Assuit than in Minia. All of the centers are connected but it is not consistently functional in all of them. The system depends on an internet-connection and in some cases the phone line in the extension centers is not functioning.

The services that the center provides to the farmers are the awareness raising session and responses to the farmer problems if possible. Some centers revealed that the connection between the farmers and the extension centers is weak since the number of direct services the centers offer to the farmers is limited.

(3) Rural Development Centers

There are 60 rural development centers at the village level: fully equipped with equipment of dairy, food industries and handy crafts and training facilities. Those centers train and qualify rural women and youth to establish micro and small enterprises to generate income using available local materials and products.

4.1.4 Agricultural Research

(1) Central Level

The Agricultural Research Center (ARC) of MALR organizes 20 institutes under its administration. The organization chart of the Horticultural Research Institute (HRI) is shown below. It is governed by a director and three deputy directors specialized for "research", "extension, training and environment", and "Production". There are 19 research departments1, 4 laboratories and 16 research stations in the country.

[1] Citrus Research Department (RD); Viticulture RD; Tropical Fruit RD; Deciduous RD; Olive and Semi-arid Zone Fruit RD; Fruit Handling RD; Breeding RD for Fruit Trees, Ornamental Plants and Woody Trees; Cross-Pollinated Vegetable Crops RD; Self-Pollinated Vegetable Crops RD; Potato and Vegetative Propagated Vegetable Crops RD; Vegetable Seed Technology RD; Medical and Aromatic Plants RD; Vegetable Handling RD; Breeding RD for Vegetable Crops, Medical and Aromatic Plants; Protected Cultivation under Modified Conditions RD; Ornamental Plants RD; Botanical Gardens RD; Timber and Forestry RD; and RD of Flora and Phytotaxonomy.

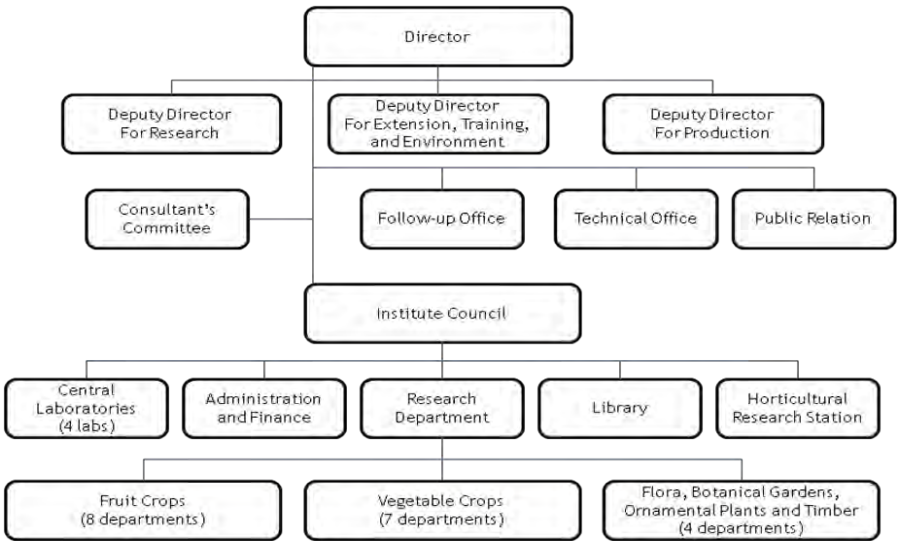


Figure 4.1.2 Organization Chart of HRI

The following table shows the composition of its staffs. It is a large organization having about 600 Ph.D.

Table 4.1.4 Number of Staffs of HRI

	Number
Emeritus	153
Chief Researcher	79
Senior Researcher	135
Researcher	219
Research Assistant	73
Assistant Research	36
Agricultural Specialist	282
Interim Agricultural	1778
Administration	280
Labor	795

Source: Horticulture Research Institute

The main activities of the institute are 1) improvement of crop varieties, 2) crop production, 3) crop physiology, and 4) technology transfer.

The outputs of the research are reported to the ARC in every 3 months, and compiled in the research report. The Annual Report of the institute is also published. For farmers, the booklets on specific crops or subjects are prepared for distribution.

The institute provides agricultural extension services to agricultural engineers and farmers through field days, farmers field schools, short-term training courses, and so on.

There are connections with private sector2, international organizations3, and foreign universities4. The collaborative research with California University of USA was the largest activity since 1980's.

The new program of the Agricultural Research Development Fund (ARDF) has been commenced in

[2] Private sector includes Horticulture Export Improvement Association (HEIA).
[3] International organization includes ICARDA, GTZ, FAO and EU.
[4] Foreign university included California University and Florida university of USA.

2009, using MALR budget of LE 60 million. The research subjects, which are proposed by researchers and selected by the ARC, can use LE 1 - 5 million in 5 years.

(2) Governorate Level

There is a Agricultural Research Station in each governorate under the central administration. The location of the Research Stations are Mallawe district of Minia and Abnoub district in Assiut.

The Mallawe Agricultural Research Station was established in 1964. Total number of staffs is about 500, including 22 Muhendis and 39 researchers. The Station has model farms of field crops, a horticulture station, and an animal station. Laboratory and library is placed in the Station. There are 6 departments, namely, Horticulture, Water and Soils, Plant Protection, Sugarcane, Cotton and Maize. The major target crops are cotton, sugarcane, sugar beet, citrus, tomato, eggplant, garlic, onion, potato, green bean and soybean. The Station provides seminars for agricultural engineers and farmers in the governorate. The consultation service is also given to any farmers who come to the Station.

The Assiut Agricultural Research Station in Abnoub district was established in 1998. Total number of staffs is 95, consisting of 40 researchers, 15 administrative staffs and 40 workers. The Station has an experimental farm with an area of 48 feddan, and a livestock center in Assiut city. Laboratory is placed in the Station. The major research subjects are field crops, fruits, livestock, irrigation, environment, and food science. Regarding information service, the Station collaborates with agricultural extension division of Agriculture Department of the governorate.

5.5 Agricultural Directorate in Governorate

The organization of Agricultural Directorate in Governorate is basically structured with three General Departments for Agricultural Affairs, Agricultural Cooperation and Financial & Administrative Affairs and also 10 departments under the Head of the Directorate including public relation, technical office, planning & follow-up, training, land protection, food security, legal affairs, field follow-up, citizen services and information & documentation. Figures 4.1.3 and 4.1.4 shows the organization chart of the Directorates in Minia and Assiut respectively.

Significant difference is that Assiut raises the grade of pest protection unit as the General Department, while these affairs are under the GD of Agricultural Affairs in Minia. Also a section of organic agriculture in Assiut is significant. As for Minia, the office of Agriculture Production Intensification Project (APIP) funded by IFAD has been established even after the Project ended in 2005. The section follows the activities implemented by APIP.

Statements on the budget and expenditure for the last 5 years from 2004 to 2009 in Assiut are LE 512,201,965 and LE 510,439,635 respectively and the planned budget and expenditure for the next five years are LE 665,862,554 and LE 663,571,525 respectively.

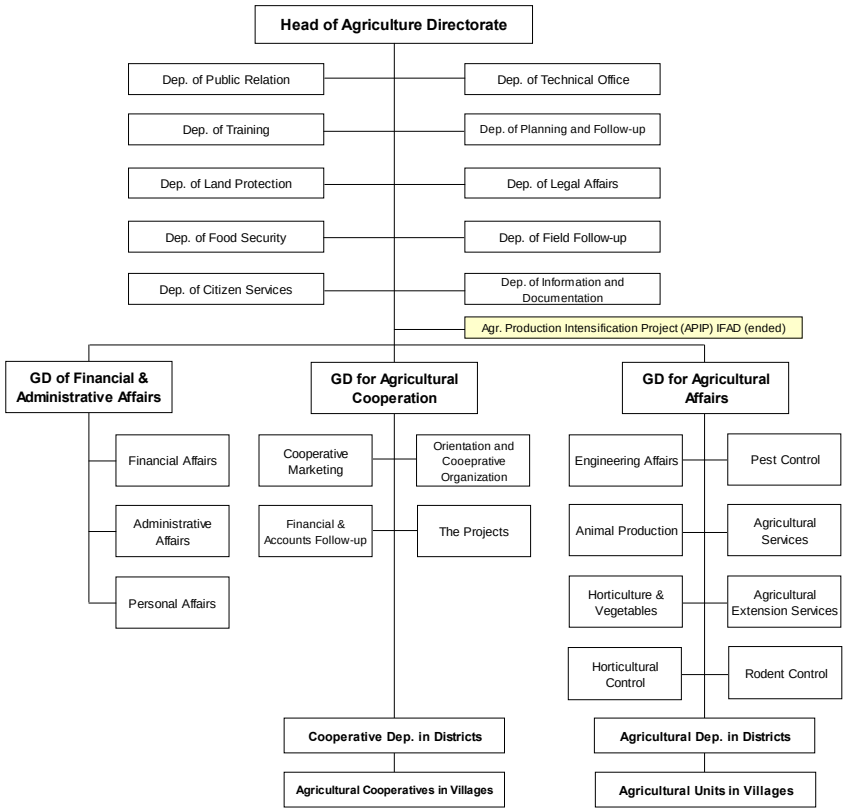


Figure 4.1.3 Organization Chart of Minia Agriculture Directorate

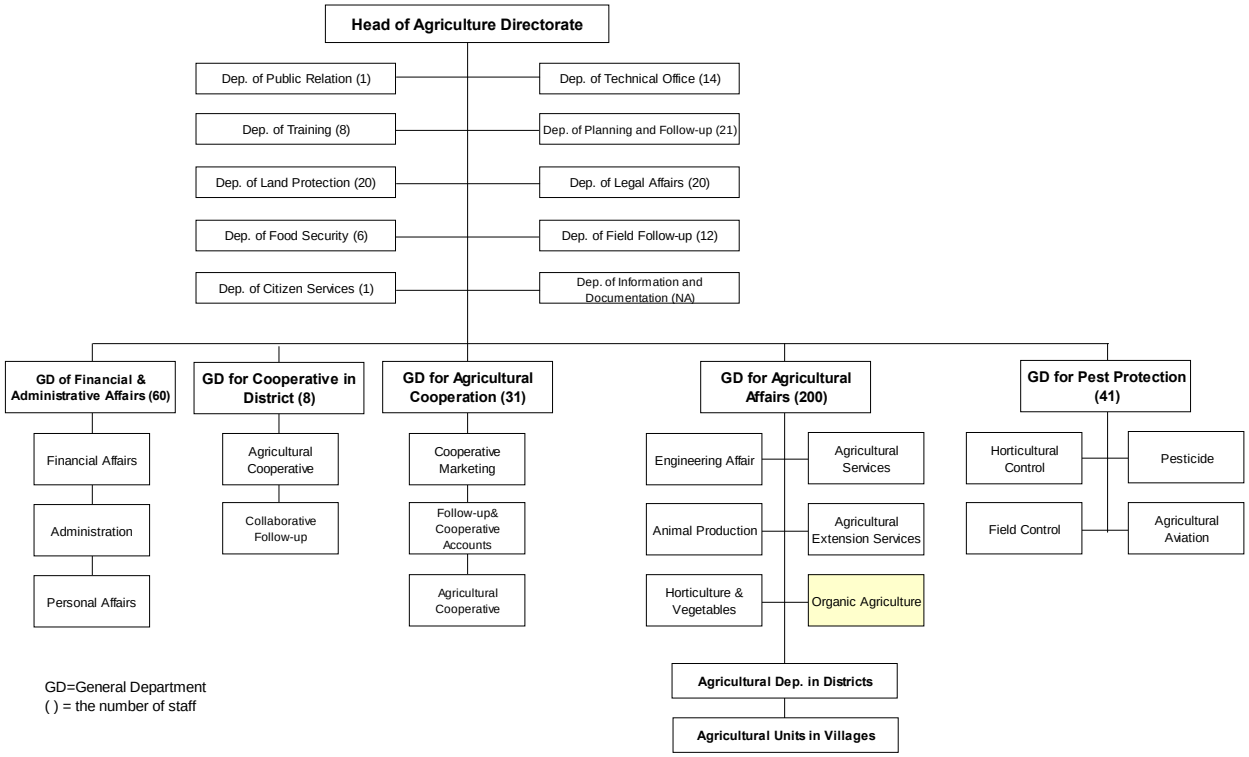


Figure 4.1.4 Organization Chart of Assiut Agriculture Directorate

APPENDIX 4.2 Other Donor Activities in the Governorates

This APPENDIX summarizes the major activties of donors in the Project Governorates relative to this Project. Major on-going activities are by IFAD and CEOSS (NGO) and the completed one is by USAID / CARE, and the one to be begin in near future is by SDF / AfDB.

4.2.1 IFAD

(1) Upper Egypt Rural Development Project

International Fund for Agricultural Development (IFAD) has been implementing a project called "Upper Egypt Rural Development Project" with the period from 2007 to 2015 and total cost of USD19.8 million. The Project covers governorate of Beheria, Qena, and Assiut. Specific objectives are to empower rural poor people to create sustained employment and increase their income. The project will support small enterprise development, particularly through microfinance and partnerships with commercial banks. And by supporting research and extension, it will work to help small farmers achieve higher returns per unit of land and water (IFAD web site).

The target groups of the Project are smallholder farmers, landless laborers, unemployed young people and women who are heads of households. The Project sets their focus on two-level: one is village as a unit extremely poor villages and clusters of villages, and another is people who have the potential skill and entrepreneurial ability to become involved in marketing products. The focus of the Project is similar to the approach of IMAP, which has also focused "typical (usual) village", and "potential village".

The target of the Project is to reach 20,000 households and their strategy is to encourage the project participants to form community-based associations, including farmers' associations and craftworkers' marketing associations. The associations will have an important role in implementing project activities, including: 1) identifying and prioritizing local development needs, 2) supporting market linkages and supply chain analysis, 3) providing technical advisory services, 4) promoting joint or individual investment in small and microenterprises, 5) disseminating marketing information, and 6) procuring inputs. The Project also emphasizes gender issues.

In Assiut, the Project started in July 2008. The loan is provided through the PBDAC with 7% of interest rate. It has been carried out in 88 villages in Assiut Governorate. The activities are not only support for existing farmers' groups, but also they are supporting to establish new farmers' associations. According to the oficer incharge in Assiut, establishing new associations is not easy and taking time. In Assiut, the project reached LE10 million by March 2010, and around 4,700 projects have been carried out (refer to Table 5.2).

Table 4.2.1 Upper Rural Development Project (activities rendered in Assiut (from July 2008 to June 2010)

Animal Production	Trade	Service	Agriculture	Industrial	Total
2412	1247	631	180	230	4712

(2) Agriculture Production Intensification Project (APIP)

IFAD has implemented Agricultural Production Intensification Project (APIP) from 1995 to 2005 with the total cost of US$39.2 million out of which IFAD funded a loan of US$20.2 million. APIP covered its service area of Minia, Fayoum and Beni Suef Governorates and served 0.52 million households as direct beneficiaries. Although the Project has ended, the Minia Agriculture Directorate maintains the office for APIP to follow up the activities installed by the project in the Governorate

with its own budget.

The overall objective of APIP was to increase the income of rural households that are landless, have small landholdings (less than 3 feddan), or are headed by women. The project had brought a range of support services, namely research, extension and credit in order to help the target households rapidly adopt technology to improve their productivity and intensify land use. The project cooperated with project management, extension services, research center and Principal Banl for Development and Agriculture Credit (PBDAC) to address the real needs of small-scale farmers and transfer the agricultural technology including animal production to them.

There were four main activities by the project: 1) research component (Farming System) carried out by Sids Research Center in Beni Suef, 2) agricultural extension component carried out by Agricultural Extension Service Section, 3) credit component released through the Bank for Development and Agri. Credit (BDAC) at village level, and 4) project management and monitoring & evaluation,

As Sids Research Center as focal point, the Project had developed farming systems in collavorative work of extension and research and strengthened the extension system with modified esxtension method of travel and visiting system. The Project also established units of women group formation and training and communication to produce training materials. As for credit, the project established a credit line with a guarantee scheme in BDAC to provide loans to small farmers and landless persons.

As well as the fact that Minia Agricultural Directorate maintains the human resource and research & extension method to maintain the inputs of APIP, Sedi Research Center has also stocked the outputs of the project. IFAD further established the Rural Women Cetner to train rural women at the compound of the Minia Directorate. These resources are very usueful to carry on the activities for agriculture development.

4.2.2 CEOSS (Coptic Evangelical Organization for Social Services)

Coptic Evangelical Organization for Social Services (CEOSS) is an NGO established in 1960 in Egypt with its mission to improve the quality of life in impoverished communities, to empower communities and individuals with sustainable development, and so on. CEOSS has also been engaged in promoting marketing of agricultural produce in Upper Egypt, particularly in Minia and Beni-Suef Governorates funded from mainly EU countries.

Their target is small-scale farmers with less than 3 feddan of cultivation land. The objectives of the activities are 1) to reduce cost of production, 2) increase production, 3) to sell produce at high price in the market. Once the needs are identified, CEOSS helps small-scale farmers via a three-pronged program:

1. To equip farmers to switch to organic practices, thus opening up Western markets. CEOSS is teaching farmers to create natural fertilizer through the use of compost pits.
2. Utilizing community-based organizations, CEOSS teaches farmers to grow non-traditional, more lucrative crops. Crops such as sweet onions and red potatoes yield a high profit. Empowered by information, small-scale farmers can choose their crops based on market demand.
3. To help small-scale farmers avoid middlemen by uniting them in farming cooperatives.

The Project started from 2004 and the termination has not been decided. They have established 13 associations in Minia, and 13 associations in Beni-suef. The project assists the associations to deal with agencies / companies for marketing. Their selection of the target communities have been done

with high number of small- scale farmers.

The associations deal with potato, green bean, medical & aromatic plant, onion, garlic, baby corn. The project assessed the demand and informed it to the farmers, so that the farmers could consider the demand in the market before cultivation. The project also assists to make contract farming between the association and buyers (companies) before the cultivation. With the contract, the farmers can sell their produce at stable price. Company buys produce by higher price than market but they sell the produce for export at further higher price. They are currently dealing with 15 companies to connect to farmers' associations.

The Project budget is around 10 million EGP from 2004 to date. Basically the Project is grant basis but they also do cost sharing with farmers to make them feel sense of ownership. Also for joining the association, farmers have to pay LE20. This will make farmers serious. They hope to increase the number of association and also increase of number of small scale farmers involved (currently 10,000 farmers). CEOSS estimates and evaluates that annually, an average of over 4,000 farmers increase their income by more than 25% as a result of their efforts.

All of the organizations are established as NGOs registered under the Ministry of Social Solidarity. CEOSS strategy was to work with already established community development associations by adding activities to already functioning organizations. The CEOSS supported organizations were taking on a CEOSS supported project. These projects are assimilated into the organizations activities at times supporting already existing activities. The support came in financial support, targeting mechanisms technical training, and project management.

The project is directly to connect farmers to big company so that they can eliminate the margin taken by the middlemen. But it might cause a problem that middlemen should be angry with the situation, although there are no complaints from the middlemen to the Project so far according to the staff of CEOSS. The project is making situation that the middlemen and companies compete with price to get the produce from farmers. Such role of the Project to organize farmers, find and connect the companies with farmers, might cause conflict with middlemen. That should be taken into account.

4.2.3 USAID / CARE: SHAMS Project

USAID Project, titled Agricultural Exports & Rural Incomes (AERI) was implemented from year 2003 to 2007, a 4-year project with 57.3 million USD. A significant purpose of the Project was to strengthen the competitiveness of Egypt's agriculture with the expected results of increasing on-farm and agribusiness jobs and rural income. There were five project components by grants to provide technical assistance, training and commodities through (1) support infrastructure and equipment needs of small farmers, (2) support to Egyptian agricultural trade associations, (3) support to smallholders, (4) support for international linkages between Egyptian and American scientists, and (5) technical assistance for the design of a legacy program to ensure the sustainability of achievement attained under the project.

Among the components, USAID agreed with CARE Egypt to grant 10.9 million USD in September 2003 to work with horticulture farmers. CARE Egypt implemented a Project called "Agreform" with the budget of 1.2million US$ in 2000. This small project was successful and developed to "SHAMS Project" in 2003. Here, we describe SHAMS Project as the relative one to the Project.

SHAMS Project was implemented from Giza to Aswan (All Upper Egypt). Farmers in Upper Egypt were production-oriented. CARE brought business-oriented activities to the farmers. CARE made

an awareness raising that the farmers should find demand first and also promoted linking farmers and traders / processors / exporters.

According to the assessment, it was found that all the production process is good, but after the harvest, quality of products were broken down. The Project, therefore, focused on the activities of post-harvest. Also Upper Egypt has an advantage in time compared to the North due to warmer climate. This is an advantage to get windows to Europe market. Traders had preferred the area near Cairo like Ismailia and Kallyubia governorates to reduce transportation cost. But the first year of the project, farmers in Upper Egypt made a contract with the traders that they would bear the cost of transportation. Then the 2nd year, the farmers asked the traders to bear the cost of transportation and the traders agreed with it because they were satisfied with their business with Upper Egypt farmers (they realized the advantage in time in Upper Egypt).

The Project was dealing with small and medium exporters. To link the exporters and small scale farmers, the Project assisted farmers to organize farmers' association. When the Project made an assessment at that time, farmers preferred to move with CDA (Community Development Association) to cooperative. Total 105 farmers' associations (registered to the Ministry of Social Solidarity) were established and also three federations of the associations were established in Fayoum, Sohag and Qena. According to the record of CARE, there were eight and six associations registered in Minia and Assiut respectively as of the end of year 2005. Total membership of the association was from around 60 to 260 members averaging around 140 members. SHAMS Project expanded green bean production in Upper Egypt. According to the Final Evaluation Report (Sep. 2007) by USAID /CARE, the return of cultivating green bean was 50% higher than traditional crop such as sugarcane.

Under the project as additional grant, some processing center and post-harvest center to establish cooling chain was also constructed under the management of the farmer associations. For example, a post-harvest station constructed along the west desert highway in Minia has been managed by a CDA established through SHAMS Project. The center started its operation from September 2009 and dealt with pomegranate and grape traders. The center has been operated for only a few weeks throughout the year. The center may require improving the operation ratio to make full use of the facility.

After the SHAMS Project ended in 2007, activities of some CDA established through the Project seems fading out. According to the Final Evaluation Report, it was evaluated as of 2007 that 60% of the associations would remain viable after the project ended. Of the 9 organizations supported by SHAMS Project, which the Team surveyed, three were not functioning, either because they were dismantled or are in process or have not been established. In the governance of the SHAMS project organizations, there seemed weakness in any internal regulations structure or practice and documentation of activities.

It seems the organizations reverted into dormant phases as soon as the project ended. There was not real service being provided for the farmers. Farmers approached the exporters independently and did not work collectively though the association. The Project had with various degrees been able to improve agricultural production and succeeded to make a number of marketing and export transactions. These efforts however seemed short lived after the Project ended.

On the other hand, the organization itself is still existent to some extent and trying to engage in collective activities regardless marketing of agriculture produce such as establishing kindergarten, or carpentry workshop to create job opportunity in the village. A good point that the Project arranged was to utilize the existing institutional setting in the rural society. CDA has been common in the

rural villages and no matter how active the organization of the CDA remains as a tie of villagers. An executive of a CDA told that the SHAMS Project ended, but it did not mean CDA was dismissed. It is indicated that if the existing organization got a mission, the experience accumulated in such organization could be utilized.

4.2.4 SFD / AfDB: Rural Income and Economic Enhancement Project (RIEEP)

Social Fund for Development (SFD) was established in 1991 in order to alleviate the hardship created by the returning Egyptian workers from the Gulf area as a result of the First Gulf War. SFD focuses on sustainable development projects (SFD web site). SFD provides its services through the partners of 650 NGOs and 3,200 branches of 22 banks allover Egypt. The target of SFD is small and medium scale enterprise (SME) with less than 50 staff and workers. SFD provides financial service through the partners and non-financial services e.g. consultation for business planning to SME. 23% of financial services have been given to agribusiness.

African Development Bank (AfDB) has approved to provide a grant and loan to GOE for "Rural Income and Economic Enhancement Project (RIEEP)". RIEEP has two components, namely technical assistance (TA) as grant and agribusiness facility (USD70 million loan to SME, farmer associations and cooperatives). The Project Objective is to improve the socio-economic livelihood of the economically active rural smallholder farmers engaged in the production, processing and marketing of selected agricultural commodities (horticulture, livestock and fisheries) by enhancing their participation in pro-poor productive business alliances (AfDB web site).

The strategies of the Project are 1) strengthening smallholder farmer associations (including cooperatives), 2) creating business linkages between the farmer associations and the large private sector agribusinesses in a value chain, through improved information on market opportunities, value addition, entrepreneurial skills development and reliable trade relations, and 3) providing and facilitating easy and affordable and innovative access to finance (including access to finance for micro-entrepreneurs).

The Project has set the targets as 1) support over 24,000 smallholder farmers and 20,000 micro enterprises, creating over 60,000 jobs over the 5-year period of the project, and 2) develop SFD and its partner financial intermediaries' capacity to develop and introduce new and innovative financing instruments for agribusiness. The Project is to commence value-chain analysis (by selected crop) under the component of TA, whose target governorates are Minia, Assiut and Sohag.

Based on the outputs of the analysis, which is expected to come out in the year 2011, they are going to start the agribusiness facility component. SFD considers setting different lending conditions to the agribusiness facility from the SFD's standard (upper limit with LE2million, grace period of 5 years and interest rate with -4% from the commercial interest rate). Based on the result of the Project, SFD will comprehensively examine the SFD's standard.

TA also includes farmer association, entrepreneurship training, business linking, training of service providers, and awareness creation. The targets of TA are to train 100 farmer associations, making 15 business plans, and training five service providers (bank and NGO). TA component will be implemented only in the above three Governorates but the agribusiness facility will cover the whole country. It has been agreed that RIEEP and IMAP should keep exchanging information in the course of the Project.

APPENDIX 4.3 Participatory Workshops at Governorates

4.3.1 Records of Participatory Workshops

(1) Workshops at Governorate and District-level

Governorate and District-level workshops were held twice each at Minia and Assiut Governorates. The first workshops were held on 5 May 2010 at Minia and 10 May 2010 at Assiut, and the objectives were (1) Situation Analysis of each district by Governorate and District officers, (2) Classification of districts according to the Situation Analysis, and (3) Problem Analysis and prioritization of issues according to the classification. Nine districts of Minia Governorate were grouped into Northern, Central and Southern regions, and eleven districts of Assiut Governorate were grouped into Northern, Southwestern and Eastern regions.

The second workshops were held on 13 May 2010 at Minia and 17 May 2010 at Assiut, and (1) Priority agricultural strategies, on-going and pipeline projects, (2) Major success stories, and (3) Candidates for "Usual Village" and "Potential Villages" and rational were presented. Then one "Usual Village" per each region was selected.

(2) Situation Analysis of Districts and Classification

Firstly at the Situation Analysis, major issues to compare the districts were identified; For Minia Governorate: (1) There is no place for marketing, (2) The decreases of farmers' income, (3) Lack of irrigation water, (4) Instability of prices, and (5) Lack of irrigation water for new lands; For Assiut Governorate: (1) Marketing, (2) High price of the inputs e.g. pesticides and fertilizers, (3) Post-harvest processing, (4) Irrigation water, and (5) Overuse of pesticides / No use of organic farming.

Then each district presented the present situation of the district, and ranked all the districts from score one to score three. Score one means there are big problems, score two means there are some problems, and score three means there are not much problems. While there was no score three in Minia Governorate, there are 22 score threes out of 55 items in Assiut Governorate. Especially El Fath District of the Eastern Region gets four score threes in five items. Sahel Selem District of the Eastern Region, Sadfa District of the Southwestern Region and El Kosya District of the Northern Region get three score threes out of five items. In Minia Governorate, Smallout District and El Minia District of the Central Regions get flat score ones in five items. In Assiut Governorate, Dayrut District of the Northern Region and El Badary District of the Eastern Region get the lowest scores with three score ones in five items.

Though the assessment is severer in Minia Governorate, some similarities and patterns by region can be seen. As in Table 4.3.1, "(1) There is no place for marketing" is score two in the three districts in the Northern Region of Minia Governorate where it is score one in the Central and Southern Regions. "(2) The decreases of farmers' income" and "(5) Lack of irrigation water for new lands" are flat score one in all the districts. "(3) Lack of irrigation water" and "(4) Instability of prices" are less significant in the Northern Region.

Table 4.3.1 The Results of Situation Analysis and Classification in Minia Governorate

District	Northern Districts						Central Districts						Southern Districts					
Major Issues	El Edwa		Maghagha		Beni Mazar		Matai		Samallout		El Minia		Abo Korkus		Mallawe		Dayr Muas	
There is no place for marketing.	2	Presence of middlemen between the farmers and marketing agencies is the problem of market.	2	Lack of farmers' awareness on marketing process.	2	No agricultural rotation leads to random areas.	1	Absence of official bodies to ensure marketing process.	1	Presence of middlemen between the farmers and the marketing agencies.	1	Decrease of the price of agricultural produce.	1	Absence of multiplying markets.	1	Absence of official bodies to ensure the marketing process.	1	Since there is only one factory to process the crop, there is lack of competition.
The decreases of farmers' income.	1	Price of agricultural produce is low and the costs are high.	1	Selling price is low compared with the cost.	1	Increase of costs.	1	High production costs.	1	High price of inputs like seeds.	1	High production costs.	1	Low price of agricultural produce.	1	High production costs.	1	High production costs.
Lack of irrigation water.	1	Lack of water in the canals because the canals are at the end of the district.	1	Lack of farmers' awareness on the use of new irrigation methods.	1	The district is at the end of the main canal.	2	Lack of farmers' awareness on the rotation of irrigation water.	1	Cleaning of the canals and drainages is not done in systematic manner.	1	Most of the areas are irrigated by flooding.	2	Lack of water in quantity.	2	No regulatory timetable for irrigation.	2	The main crop, which is sugar cane, requires a big amount of water.
Instability of prices.	2	There are no agencies for marketing.	1	Instability of supply and demand.	1	No balance in production or between supply and demand.	1	Market depends on supply and demand process.	1	Absence of agricultural rotation.	1	Increase of the produce of crops more than the demand.	1	Imbalance between supply and demand.	2	No balance in quality.	2	Imbalance in crop quality.
Lack of irrigation water for new lands.	1	Few water in the new land because the canals are at the end.	1	The use of irritation water is not the best.	1	The levels of groundwater are different in depth so that it is difficult to pump up water.	1	Increase of irrigation costs.	1	No irrigation network in new lands by making canals.	1	New methods of irrigation are not used.	1	Water level with long distance.	1	Lack of capital.	1	New methods are not used.

Table 4.3.2 shows the results of situation analysis and classification in Assiut Governorate. All the four districts of the Eastern Region are scored one for "(1) Marketing", while scored three for "(4) Irrigation". "(5) Overuse of pesticides / No use of organic farming" is also scored three in the three districts too. "(3) Post-harvest processing" is scored three in all the three districts in the South Western Region.

Table 4.3.2 The Results of Situation Analysis and Classification in Assiut Governorate

District	Northern Districts								South Western Districts						Eastern Districts							
Major Issues	Dayrut		El Kosya		Man Floot		Assiut		Abo Teag		Sadfa		El Ghanayem		Abnoub		El Fath		Sahel Selem		El Badary	
1. Marketing (8 cards)	1	Low price of crops.	2	No company or agency receive the crops farmers produce.	2	No agency for marketing. / There are many middlemen and traders.	1	Lack of factories for agricultural waste / Low price of agricultural produce. / Costs are high.	1	Low price of agricultural produce. / The difference of cotton prices in marketing.	3	Cash finance.	1	Land holding is small. / Organizations are small.	1	No shops to take the produce. / No markets.	1	Low price of crops. / No market place for marketing.	1	No agreement between the farmers and market agencies to receive the crops.	1	No marketing by agricultural associations which help the farmers.
2. High price of the inputs e.g., pesticides and fertilizer (4 cards)	1	High price of fertilizers.	1	High price of inputs.	1	Quality of seeds is bad. / Traders are cheating on the quality of seeds.	2	Presence of middlemen and traders.	1	High price of seeds and fertilizers.	1	High price of production necessities.	2	High price of pesticides.	2	High price of production necessities such as seeds.	3	High price of fertilizers and pesticides.	3	High price of inputs.	1	High price of pesticides and seeds.
3. Post-harvest processing (2 cards)	1	Lack of factories (processing tomato).	3	No factories to process vegetables, medicinal plants and aromatic plants.	3	High price of machines. / Lack of factories to process fruits.	1	No export quality packaging for agricultural produce.	3	There are a lot of wastes and they are not reused.	3	No factories or units to process for exporting.	3	No problem.	1	No drying units for medicinal and aromatic plants.	3	No problem.	2	No factory to produce horticultural products such as pomegranate, citrus and tomato.	1	No cool storage for the products like pomegranate..
4. Irrigation (2 cards)	2	Meska and channels are not cleaned nor taking care of.	3	Canals and drainages are not cleaned.	3	No regular rotation for irrigation.	1	No regular rotation for irrigation. / The water level is low at the end of the canals.	3	The water level of the main canal is low so that the water level of canals is low.	1	Canals and drainages are not cleaned or weeded.	3	Farmers don't clean the canals / which leads to lack of water at the end of the canals.	3	Lack of water at the end of canals.	3	No problem.	3	Water level is low at the main canal.	3	Water levels are low at canals.
5. Overuse of pesticides / No use of organic farming	2	Traders are cheating in quality of pesticides and they circulate in the market without government supervision	3	Lack of awareness on the danger of pesticides. / Traders are cheating so quality is poor and pesticides are not efficient.	1	Lack of awareness on clean agriculture.	2	Farmers suffer from too much use of pesticides. / Farmers cannot export because of that.	2	No agency of companies to make and sell pesticides.	3	Traders are cheating on pesticides.	2	High price of pesticides. / Too much use of pesticides.	3	Inefficient pesticides. / Traders are cheating.	3	No problem.	3	High price of pesticides. / Pesticides are not effective.	2	Pesticides are not efficient. / The price of pesticides is high.

(3) Problem Analysis of the Regions

According to the Situation Analysis and the Classification, Problem Analysis for each Region was practiced. The core problem is "Small scale farmers have little income" and is same for all the regions since the goal of the Study is to increase the income of small scale farmers. After identifying direct causes, the participants were divided into sub groups by region. The priorities of direct causes by region are shown in Table 4.3.3.

Table 4.3.3 Direct Causes of "Small scale farmers have little income" by Region

Governorate	Minia Governorate			Assiut Governorate		
Region	Northern	Central	Southern	Northern	Southwestern	Eastern
Regional Level	**1. Production cost is high.**	**1. Small-scale farmers can't sell at good price.**	**1. Production cost is high.**	**1. Production cost is high.**	**1. Production cost is high.**	**1. Family members are increasing.**
	2. Small-scale farmers suffer from crop damage.	2. Production cost is high.	2. Small-scale farmers suffer from crop damage.	2. Price of the produce is low.	2. Production Is low.	2. Debt from credit is big.
	3. Small-scale farmers can't sell at good price.	3. Small-scale farmers suffer from crop damage.	3. Small-scale farmers can't sell at good price.	3. Debt from credit is big.	3. Price of the produce is low.	3. Agricultural waste is not utilized.
	4. No job opportunities in the area.	4. No job opportunities in the area.	4. No job opportunities in the area.	4. Post-harvest loss is high.	4. Post-harvest loss is high.	4. Production cost is high.
				5. Production is low.	5. Debt from credit is big.	5. Price of the produce is low.
				6. Agricultural waste is not utilized.	6. Agricultural waste is not utilized.	6. Production is low.
				7. Family members are increasing.	7. Family members are increasing.	7. Post-harvest loss is high.

Number one direct cause for why "Small scale farmers have little income" was "Production cost is high" in four of the six regions. "Small scale farmers can't sell at good price", which is directly related to marketing improvement, was number one in the Central Region of Minia Governorate, number two in the Southwestern Region, and number three in Northern and Southern Regions of Minia Governorate and Southwestern Region of Assiut Governorate. In the discussion at Minia Governorate, participants decided to concentrate more on marketing improvement. That is why they did not talk about "Production is low" or "Family members are increasing".

(4) Selection of "Usual Villages"

As a consequence of the classification of districts and the problem analysis by region, all the districts were requested to prepare (1) Priority agricultural strategies, on-going and pipeline projects, (2) Major success stories, and (3) Candidates for "Usual Village" and "Potential Villages" for the second workshops.

The criteria for selecting a candidate for "Usual Village" are described by the participants as (1) No projects found in the village, (2) Capacity of the village is weak, (3) Farmers possess small holding (ownership) in the village, (4) Agricultural holding (ownership) is separated, (5) The village has little income and has not have nay agricultural projects before, (6) Lack of skilled labors, (7) A village which has the ability to absorb new ideas, (8) Unemployment rate is high., etc.

Table 4.3.4 (Minia) and Table 4.3.5 (Assiut) show (1) Priority agricultural strategies, on-going and pipeline projects in each district, Table 4.3.6 (Minia) and Table 4.3.7 (Assiut) show (2) Major success stories in each district, and Table 4.3.8 (Minia) and Table 4.3.9 (Assiut) show (3) Candidates for "Usual Village" and "Potential Villages" recommended by each district.

Table 4.3.4 Major On-going and Pipeline Projects in Each District of Minia Governorate

District	1. El Edwa	2. Maghagha	3. Beni Mazar	4. Matay	5. Samallout	6. El Minia	7. Abo Korkus	8. Mallawe	9. Dayr Muas
Ideas	(1) Factories for tomato sauce in the industrial area.	(1) Establishing an association for marketing fruits and vegetables. (2) Factories for processing the surplus of vegetables and fruits.	(1) Establishing drying factories for medicinal and aromatic plants. (2) Establishing an association for marketing these produce.	(1) Pilot projects for farmers to have more experiences. (2) A program to regain confidence between farmers and the pilot projects. (3) An organization for agricultural marketing in the district, since this district is one of the distinctive districts in vegetables.	(1) Symposium of grape marketing with farmers. (2) Conducting an economic survey of grape production for export. (3) Creation of job opportunities through marketing. (4) Mansheia Bardeni Village: Training of farmers for exportation.	*The major crop is sugarcane.* (1) Establishing squeezers for molasses production. (2) Establishing a factory for tomato sauce. (3) Establishing a factory for cattle & poultry feed.	*Many sugar factories in this district* (1) Development of private projects. [which needs to support] (2) El Fokkay Village: Dairies for milk production and cheese need to be developed. (3) Factories of mixing feed need to be developed. (4) There are large lands in the east and west of the valley, which can be reclaimed.	(1) Changing irrigation systems and using new irrigation methods. (2) Cultivating sugar beet instead of sugarcane to save water. (3) Lining of private meska to reduce water leakage. (4) We have only started to include those who have special needs in the development plan. (5) Cultivating crops for export to sell at high prices. (6) Using organic agricultural methods. (7) Establishing whole sale markets for marketing the same produce which is collected from all the villages in the district. (8) Field days for introducing new vegetables in the whole district. (9) Constructing greenhouses for producing vegetables in collective way so that farmers can have high prices. (10) Providing loans to small-scale farmers to start projects. (11) Establishment of an association for marketing agricultural products.	(1) Drying onion & garlic, and storing, packing and exporting vegetables. (2) Seasonal agricultural fairs for the most important agricultural produce. (3) Making compost from agricultural waste. (4) Producing karina from the leaves of palm trees and making ropes, which can be used in sugarcane's marketing. (5) Expansion of agriculture in the desert by using new irrigation methods and by production of medicinal and aromatic plants for export. (6) Development of poultry feed factories using the waste of the slaughterhouses.
On-going projects	(1) El Mesead Village: Making compost from garbage project. (2) New Land 5th Village: Fattening poultry project financed from European Union. (3) Safnia & Salakos Villages: Preparation and drying of green garlic for export project. (4) El Baskalwn Village: Honey production for export project.	(1) El Koam and El Akhadar Village: A factory for drying onion, garlic, dill and parsley for export. (2) El Sheakh Zayed and Abad El Balad Villages: Refrigerators. (3) Dhmaro Village: Selection and packaging station for vegetables and fruits. (4) El Sheakh Zayed Village [Not working anymore]: A factory for drying onion and garlic. It worked for many years but is stopping now because of management & finance problems.	(1) Abo Gorg Village: A center for packing grapes. (2) Abo Gorg, Beni Mazar and Tambo Villages: Refrigerators for vegetables and fruits. (3) [Not working anymore]: A factory for ater, an aromatic plant, which is stopping now because the plant is no more cultivated in the area.	(1) Awlad El Shekh Ali, West Cila, El Kefoar and Matay El Balad Villages: Refrigerators for potatoes and also could be for vegetables and fruits. (2) Abo Shaata Pilot Center: Handmade carpet production project. This project is by the agricultural association as an agricultural pilot.	(1) Shosha Village: A poultry station [a government station] producing 70 million eggs. (2) 159 farms of poultry fattening in the valley and 57 farms outside of valley. (3) Chick production and two poultry slaughterhouses. (4) A factory producing 28,000 ton / year of cattle & poultry feed. (5) Three refrigerators for potatoes. (6) El Tiaba and Shosha Villages: Halva factories. (7) El Tiaba and Shosha Villages: Macaroni factories. (8) Land improvement center for all the governorate. *The major crop is wheat. Apiaries. Cattle fattening by individual household.*	(1) Dmshear, Borgaia, Saft El Laban and Nazliat Ebad Village: Six refrigerators for vegetables and fruits. [One governmental refrigerator and five private refrigerators.] (2) Tala and Towa Villages: A factory of manufacturing organic fertilizers from agricultural waste. (3) Tahnasha Village: A private feed factory. (4) Beni Mohamad Soultan Village: A molasses squeezer but it is stopping now. (5) Bhdall Village: A factory for vegetables butter.	(1) 850 poultry farms. (2) Sugar factories manufacturing sugar from beet, sugarcane, yeast and alcohol.	(1) District level: 70 squeezers for molasses production. (2) Tona El Gabal Village: 80 squeezers for sugarcane. (3) El Mohramean Village: A factory for recycling the agricultural waste. (4) Egg production is 13 million eggs / year. (5) Mallawe: Rice millers. (6) Mallawe: A halva factory. (7) Mallawe: A private mill. (8) Mallawe: An agricultural researches station. (9) Mallawe: A maintenance center for agricultural machines. (10) Mallawe: Land improvement sector. (11) Mallawe: A factory for mixing feed. [which needs development]	(1) 250 poultry farms. [150 farms are in Dalga Village] (2) Dalga Village: Two factories for poultry feed. (3) El Hasiba Village: Factories for purifying and packing molasses. (4) 40 squeezers to produce molasses. [Most of them in Kafr khozam Village, Beni Amran, Nazlit Ebad, Beni Salem and Dayr Muas] (5) Dagla Village: Five factories for pickles. (6) Dagla Village: A project for exporting medicinal and aromatic plants. (7) Beni Haram, Beni Salem and Dayr Muas: Marketing and exporting sugarcane for both local market and export.

Table 4.3.5 Major On-going and Pipeline Projects in Each District of Assiut Governorate

District	1. Dayrut	2. El Kosya	3. Manfalot	4. Assiut	5. Aboteeg	6. Sadfa	7. El Ghanayem	8. Abnoub	9. El Fath	10. Sahel	11. El Badary
Strategies	There are large cultivated areas of taro and sugar can also beet gives the best yield in the district.	Famous crops in this district are wheat, tomato, fruits and medicinal & aromatic plants.	There are large areas of citrus pomegranate, cotton, maize, wheat and medicinal & aromatic plants.	There are large from land of tomato and onion.	The existing crops are maize, wheat and beans.	Cultivation of traditional crops such as wheat, broad bean, onion, lentil, garlic, cotton, maize, sorghum and horticultural crops also pomegranate to export to the Gulf.	El Ghanayem is a small district famous for wheat, maize, beans, sugarcane and root beet and it is distinctive by large reclaimed land for tomato planting.	Abnoub District is famous for traditional crops as wheat bean, maize, sorghum, and medicinal & aromatic plants such as basil, fennel, and anise.	Cultivated area is 31,309 feddans (9,516 feddans is reclaimed land), cultivated crops are traditional crops such as wheat, maize, sorghum, clover, horticultural crops e.g. citrus fruits, vegetables and pomegranate.	There is a large farm land of citrus 2,790 feddans. (orange 1,900 feddans., Mandarin 800 feddans, lemon 500 feddans and grape 500 feddans, mango 130 feddans, pomegranate 400 feddans, panan and 400 feddans.) Also there are traditional crops such as wheat, broad bean, maize sorghum; vegetables (100 feddans) e.g. tomato and onion also there is also honey production.	The Cultivated land is 20,000 feddans. The crops are .claver, maize and sorghum which represent 13,000 feddans, horticultures which represent 4,500 feddans and pomegranate for 2500 feddans and mango.
Ideas	(1) Factory for sugar cane as the farms plant 1,000 feddans. (2) Establishing drying factories for medicinal and aromatic plants (fennel, black seed). (3) Establishing a fattening livestock project in komboha, Sanabo, Dayrot and Elshareef.	(1) Establishing millers and factories for tomato sauce production since there is a large cultivated area reclaimed from deserts and surplus crops exist. (2) Factories for packaging citrus, vegetables and horticultural crops. (3) Factories for fodder, milk since there is large quantity of livestock. (4) Establishing an automated slaughterhouse.	(1) Factories for fruit packaging. (2) Factory for poultry and livestock fodder. (3) Factory for making tomato sauce. (4) Governmental nursery bed for fruits and vegetables' seeding production. (5) Automated miller for wheat and shops for selling honey.	(1) A factory for drying tomato and making tomato sauce. The planted area of tomato is 3,000 feddans. (2) A factory for drying onion as the planted area of onion is 4,000 feddans and all this quantity is damaged because of no market. (3) Selection, packaging and categorization for medicinal and aromatic plants, also establishing an organization for export. (4) Establishing thermal units to be utilized in maturing bananas as the planted area of banana is 1000 feddans. (5) A compost factory for using banana leaves. (6) An automated slaughterhouse because a lot of farmers breed livestock. (7) Drying dates factory and factory for using Karina and recycling leaves of palm tree (8) Harvesting machine specially for wheat because labor is not enough and also expensive.	(1) A factory for recycling maize and cotton waste. (2) Cooperative marketing for vegetables and fruits also provision of selling shops. (3) Export some crops like onion, garlic, pomegranate and banana through the government. (4) Lining the side of the natural channels to stop leakage to the farm land.	(1) A factory for packaging & processing pomegranate for export. (2) Governmental shops for selling vegetable and fruits. (3) A factory for recycling agricultural waste to produce fertilizers.	(1) A small factory for tomato sauce production. (2) A factory for drying onion as it is planted in desert land. (3) Lining sides of natural channels to reduce rodents and pests' damage.	(1) A factory for recycling agricultural waste to decrease rodents also to be utilized as fodder for cattle. (2) Establishing a factory for drying medicinal & aromatic plants to decrease loss and to export to European countries. (3) Establishing a fund to aid farmers in case price becomes low. (4) Establishing a shop for selling medicinal and aromatic plant produced.	(1) A factory for recycling waste of maize & cotton and converting them into fodder. (2) An automated slaughterhouse for poultry. (3) A factory for oil extraction from oil and Jujopa which used as a fuel for airplanes beside its use in medical aspect and cosmetics. (4) A factory for packaging processing pomegranate for export. (5) A factory for tomato sauce.	(1) A factory for drying and packaging citrus. (2) Apiaries (500 wood cells) and association for honey marketing. (3) A factory for making juice from pomegranate and citrus. (4) Establishing an association for pomegranate export.	(1) A compost factory (2) A refrigerator for storing pomegranate. (3) An association for pomegranate export, a factory for making pomegranate juice. (4) An automated slaughterhouse for poultry.
On-going projects	(1) Kodyet Eleslam Village: A private project for fattening livestock stared in 2005 and is still working. (2) Komboha Village: A poultry production project for the whole governorate (a private project).	(1) Meer Village: Dairy milk and livestock production since 2005 and are still working. (2) Monshat Khashaba Village: Nursery bed for vegetables and fruits. (3) Monshat Khashaba Village: Breeding livestock & sheep and planting medicinal & aromatic plants. (4) Government project: Fattening livestock and milk production by the agriculture administration which is related closely to agriculture extension.	(1) Om El Kosor Village: A governmental project for fish production since 1998 and is still working. (2) Manflot District and Bany Nagd Village: successfully working apiaries since 25 years ago and are still working. (3) Bany shaaran Village, Al Ezeaya Village and Al Hawatka Villages: Private projects for fattening livestock from 20 years ago and are still working. (4) Bany Sanad Village: A governmental project for milk production since 15 years ago and is still working.		(1) In the industrial area of EL Zaraby: A fodder factory and a slaughterhouse since 2003 and are still working. A factory for paper production and another one for wood production.	(1) Sadfa: A private project for egg production. It produces 2 million egg /year since 1983. (2) Joint association in el deeer: Breeding and fattening live stock project since 2002. Labor force: 6 workers and 4 employees. (3) El Deeer: A fattening live stock project for newly graduated youth since 2008. It is related to the Social Development Fund which gives loan to every graduated to breed 5 livestock. (4) Sadfa: A project for fattening small calves started in 2005 related to buffalo producer's agency in Cairo. (5) Eelad Elyas Village. An animal production and breeding livestock project.	(1) Al Mashaa: A fattening live stock project (joint cooperative association in the district) started from 15 years ago and it is a successful project. (2) A project for medicinal and aromatic oil extraction since 2008, but the project stopped because of presence of marketing obstacles and traders.	(1) Industrial area in El Awamer. (2) Horas: A factory, miller and a fodder factory. (3) El Sahrk: A factory. (4) El shorook: A factory. (5) Abo Helal: Factories since 2000. Factory for oil extraction from cotton seed, Soya bean pickles factory, chips factory and a fattening live stock project.	Collection of small and scattered land hold related to the WFP. The aim is to make small scale farmers plant one type of crop to facilitate service, marketing since 2009, still going	(1) Alghareb Village: Industrial area contain factory for recycling old cloth since 2000 and is still working. (2) Sahel Salem district: slaughterhouse for poultry since 2000. (3) There are 58 Fattening poultry farms.	(1) An automated slaughterhouse for poultry. (2) All Nwames Village, Al Badary district: 23000 Bee hive for honey making. (3) 104 farms for poultry (37 is only is working).

Table 4.3.6 Major Success Stories of the Districts in Minia Governorate

District	1. El Edwa	2. Maghagha	3. Beni Mazar	4. Matay	5. Samallout	6. El Minia	7. Abo Korkus	8. Mallawe	9. Dayr Muas
Village	El Baskalon	El Koom El Akhdar	Saft Abo Gerg	Abo Haseeba	El Tawfekya, El Amodain – Kelosna and Shosha	Tahnasha Bany Ahmed	Abo Hadad Manor El Fekrya	Manshyet El Maghalka.	Delga.
Success Stories	The project is an idea of apiarists. Objective of the Project: To export and marketing bees (bee hives) for gulf states and local markets and packaging honey on special packets.	Project: A factory for drying garlic and dill and parsley. The project continues till now: Objective of the Project: To export onion and dill and parsley to Arabic and European countries.	Project: Covering and packaging the grape and giving the chance to the farmers to cover and package the grape and export it to European markets. The project started 2007 and continues till now. Owner: Mr. Mamdouh Abd El Razek.	Period: To achieve success in about one year. Partners: International organization for agriculture cooperation development and increasing rural income, agriculture engineers in the village and Matay agriculture management. Project: Providing production necessities and marketing milk produce.	Project: establishing civil associations to improve animal production in the villages in Samallout (El Tawfekya, El Amodain–Kelosna and Shosha). Members of the project: International organization for agriculture cooperation in cooperation with local agriculture pilot to help small scale farmer in the villages of Minia.	Project: a factory for feeds (El reedy) of livestock and poultry.	Owner: Brahem Gerges Supporting agency: Agricultural Intensification Project (APIP) through local agriculture pilot Project: Fattening livestock	Owner: Dr. Seif Abd El Tawab. It started from 1959 and developed in 2004 and continued till now. Contactst: Dr. Seif Abd El Tawab and Ahmed Arfat Ali who is the financial manager of the project. Project: Development a wringer for sugarcane and to produce molasses.	Project: Exportation of medicinal and aromatic plants. Owners: 5 traders and producers.
Reasons for Success	(1) Connecting with other projects to have new experiences. (2) Good preparation and selecting substances with high efficiency. (3) Export with high price through big companies.	(1) Successful management of the project and the experience. (2) Abundance of crops (vegetables and fruits) like onion, garlic, dill and parsley at the same area (3) Abundance of labors.	(1) Export the product with high price.	(1) The village has the ability to develop and accept development method in case of the increasing in farmer income.	(1) Training groups in the village through associations to improve animal production.	(1) There are a lot of shops which sell the cereals crops especially which they can use in making feeds. (2) It provided many jobs for unemployed youth. (3) High quality of the product. (4) The project developed from poultry feeds to livestock feeds. (5) Extension in production through establishing new projects like in industrial area. (6) The project provides the chick to poultry breeders and there are many slaughter houses. (7) The project started in 1990 and continued till now.	(1) Many seminars are presented to explain how to reuses the waste and silage workshop. (2) The project started small and grew. (3) The replacement of big amounts of focused feed with silage in feeding animals to produce milk as a result of that the costs became low and the profit became high. (4) The project imported 10 friezing cows and feed them with silage. (5) They use the silage as a feed. (6) As a result of the increasing of milk produce the project bought two small calf to suck from one cow. (7) Green feed is not available in summer, but they can use silage all the year .	(1) Pots were changed from copper to stainless steel. (2) Packaging changed from manual to semi automatic. (3) All the tanks are covered with wire and lined with ceramics and the storage and windows are from wire and glasses. (4) They changed its fuel to diesel once, but because of high price of the diesel compared to sugarcane waste, they return to use sugarcane waste again . (5) Many foreigner delegations visited this wringer. (6) We consider this wringer as honorable pattern. (7) Through this development, the owner exported his product to many countries.	(1) They exported their produce to many countries (Morocco –
Lessons Learned	(1) Experiences transferring from one village to another. (2) To provide new jobs opportunities for 500 labor per day. (3) To prepare an experienced team. (4) To export with high price.	(1) To export crops not only in local markets.	(1) To increase the areas where exporting crops are planted. (2) To provide new jobs opportunities.	(1) Provide the awareness to animal breeders for developing animal production and it is products. (2) An experienced team contains 6 rural women entrepreneur and the agriculture engineer. (3) There are medical convoys for animal production. (4) Improving farmers' income.	(1) Developing export and increasing rural income.	(1) Diversity in kinds of feeds (poultry and livestock). (2) Good price for all levels. (3) The result is very good.	(1) Most of the neighboring farmers adopted the same idea. (2) The project circulates through many villages. (3) The decrease in feed costs to semi costs.	(1) The belief of the owner in the importance of developing. (2) High profit of the project after the development. (3) Honesty in cooperation and the confidence between the producer and the consumer. (4) To guarantee marketing to his produce and establish new markets outside the country.	Increasing in the income as a result of high price of the product.

Table 4.3.7 Major Success Stories of the Districts in Assiut Governorate

District	1. Dairut	2. El Kosya	3. Manfalot	4. Assiut	5. Aboteeg	6. Sadfa	7. El Ghanayem	8. Abnoub	9. El Fath	10. Sahel	11. El Badary
Village	Sanabo	Meer	Om Elkosor	Mousha		Sadfa	El Mashaia	An industry town of Arab El Awamer	Bany Zaid and Al Akrad	All the district	Al Namaisa
Success Stories	(1) Project: fattening livestock and it's related to cooperative agricultural associations (2) Year Started:: 2005	(1) Project: Fattening livestock and dairy milk production in the agricultural administration (2) The project is under the supervision of agricultural extension officers. (3) Year Started: 2002 (4) The owner: The agricultural council in cooperation with agricultural extension officers	(1) Project: fish production, a governmental project (2) Implementing agency: Fish Production Department of the Governorate. (3) Year Started: 1998 and still going on. (4) Objective: Selling fish proucts and increase fish production.	(1) Project: Greenhouse for vegetable seeding production. (2) Year Started: 1998 and still going. (3) Enhanced by CARE. (4) Owner: Mohamed Abd El meream Abo Elola.	No success stories exist.	(1) Project: Egg production, fattening and production of poultry which were converted to egg production at 1994. (2) Year Started: 1983. (3) Owner: Ahmed skater Osman . (4) Supervision: Emad Rashed.	(1) Project: Fattening calves, buffalo for production of meat. (2) Related cooperation sector. (3) Implementing agency: Joint Association of Agriculture Cooperation . (4) Year Started: 1995. (5) Partners: farmers.	(1) Project: Horoar factory for fodder production. (2) Owner: Gamal Said Beshay. (3) Capacity of production: 50 ton/day. (4) Year Started: 2008	(1) Project: Collecting small–scale farmers to have easy service and give mass production. (2) Implementing agency: World Food Program of U.N. (3) Year Started: 2009	(1) Finance from the Agriculture Research Center. (2) Village: Sahel Selem (3) Year Stated: 1985 and ended at 1997. It stopped when finance ended. (4) Project: Improvement of all fruits in Sahel Selem.	(1) Project: Apiary for honey production. (2) Owner: Ahmed Salem Mluhamed Hassan. (3) Year Stared: 2000.
Reasons for Success	(1) The subsidiary from officer from agricultural directory. (2) Good experience of the workers. (3) Good follow–up. (4) Selling at the suitable time.	(1) Efforts of head of agriculture administration and workers and extension officers. (2) Good follow–up from veterinary office: vaccination in time and good supervision.	(1) Village is near River Nile. (2) They can sell products easily.	(1) Farmers took the risk in implementation of the project . (2) Providing suitable potentials for the project. (3) Labor, technical experience existing. (4) Governmental (National) supervision to produce good seeding. (5) Large number of the farmers who implanting vegetables in seeding marketing.		(1) Follow–up for the project. (2) Honesty in working. (3) Vaccination regular. (4) Providing fodders. (5) Providing labor.	(1) Good supervision from the owner. (2) Good management. (3) Easy marketing of the products because of the high rate of demand. (4) There is an available experience in breeding and fattening in the village.	(1) High technology machine in industry. (2) Good administration due to good experience. (3) Governmental supervision is very good. (4) Presences of row material for processing. (5) No problems in marketing.	(1) Easy (available) service for agricultural and income production. (2) Reducing pesticide usage and decrease water usage.	(1) Follow up from the faculty of agricultural and giving advices. (2) Giving some seminar for the owner and discussed the problem and solve it. (3) There was one counter part all the time in the garden.	(1) Good weather for production. (2) Apiary existing between the fruit garden. (3) High quality of honey. (4) Marketing is easy. (5) Price of the product is suitable. (6) Good follow up.
Lessons Learned	(1) They are trying to extend to other village. (2) The income increased. (3) Reduction of unemployment.	(1) Dairy milk production. (2) There is a place exists but they didn't know how to use it. Now after the project, they know how to use it also labor was not sufficient. (3) They gain a technical experience in production and breading livestock.	(1) Gaining new experience on how to bring up small fishes to large ones (new farms). (2) It provides new job opportunity.	(1) Ability to produce seeding free from damage with high productivity. (2) Providing seeding with suitable price. (3) Providing seeding in production area. (4) Providing experience and job opportunities.		(1) How to train the employee for working in other villages. (2) Job opportunities. (3) Improvement of egg production industry. (4) Providing egg to reach customers easily.	(1) Encouraging farmers to work in fattening, breading livestock because of increase the demand of the local markets. (2) Providing job opportunity. (3) Good investment for local projects.	(1) Producing good labor (practice team) gives good production.	(1) Develop mint of participation between farmers. (2) Experience development. (3) Marketing through cultivation of one crop in easier. (4) Production of high quality crops through planting certified seeds. (5) Use scientific ways in the whole process for facing the pests.	N.A.	(1) Production of good quality honey with high price. (2) Gaining good experience.

Table 4.3.8 Candidates for "Usual Villages" and "Potential Villages" in Minia Governorate

13-May-10

District	Northern Districts			Central Districts			Southern Districts		
	1. El Edwa	2. Maghagha	3. Beni Mazar	4. Matai	5. Samallout	6. El Minia	7. Abo Korkus	8. Mallawe	9. Dayr Muas
Selected *"usual"* Village	El Baghoor Village – 3	Abed Sherone Village – 1	Monshaat Abou Aziz Village – 2	Abou Hussein Village – 1	Manshaat Badeny Village – 3	Reda Village – 2	Etseldem Village – 3	Bargeel Village – 1	Beni Salem Village – 2
Rational	(1) Large population. (2) High illiteracy. (3) Low awareness. (4) No projects. (5) Divided land holding. (6) South east of El Edwa. (7) 4km from El Edwa. (8) West of Yosef Canal.	(1) Big amounts of medicinal and aromatic plants. (2) Farmers can't market medicinal and aromatic plants. (3) Besides, farmers are growing vegetables and fruits. (4) Traders are controlling the prices of vegetables and fruits. (5) Most of the farmers own less than 3 *feddans*. (6) No industrial projects to support their produce. (7) The village is far from the main road (=Agricultural Road), about 3 km to the east.	(1) One of the poor village in the district. (2) The ratio of women to men is higher. (3) It locates by the main road. (4) It can be the model for 5 villages beside it. (5) 7km south Beni Mazar. (6) It can be easily changed for good (e.g. rural development). (7) There are many governmental projects. (8) Most of the farmers own a half to one *feddan*. (9) There is a training center and a 7qirat is not used. We can use it for free. (10) Vegetables and aromatic plants like marjoram are planted.	(1) Readiness of the village for change and for increasing income. (2) Cultivated land is small. (3) Unemployment. (4) Population is small. (5) Most of the farmers are small-scale. (6) Practicing traditional agriculture. (7) No productive projects. (8) All these factors can lead to success and spreading the change.	(1) It is near form the main roads (Beni-Ghani Samallout). (2) It is near from the related associations. (3) It is far from Samallout (5km). (4) Income of farmers is reducing. (5) There are 550 families. (6) Unemployment. (7) Farmers' holding is small. (8) Many traders. (9) No markets. (10) Cannot produce new crops. (61 *feddans* for grape)	(1) Poor village. (2) Large population. (3) High illiteracy rate. (4) No job opportunities except farming. (5) Individual income in the village is reducing. (6) Farmers' holding is small. (7) Health unit and primary school exist. (8) Farmers are ready to change for better.	(1) By the main road. (2) Families' income is low. (3) No projects. (4) Family size is big. (5) Population is 70 thousands. (6) Small holdings.	(1) Farmers' income is low. (2) Small holdings. (One *feddan* for most of the farmers.) (3) No agricultural projects. (4) People want change. (5) Some traditional industries to make ropes and cages from palm trees. (6) 15km from Mallawe to the north-west.	(1) It contains 7 hamlets. (2) Far from Deer Mawas, 7km west. (3) Population: 20 thousands. (4) Small holdings (less than 1 *feddan*). (5) Income is reducing. (6) No projects for irrigation. (7) By the main road (Delga-Dayr Muas). (8) Sugarcane, onion and garlic are the main crops. * **[Idea:]** Constructing a factory for drying onion and garlic.
Selected *"potential"* Village # 1.	**Salkos Village:** (1) Growing garlic for export.	**Aba El Baiad Village:** (1) Big agricultural land (2500 *feddans*). (2) Many traders for agricultural produce. (3) Big market. (4) Big number of schools. (5) High education rate. (6) Good health, educational, veterinarian and social services. (7) Big amount of financial resources.	**Abou Gerg Village :** (1) Refrigerator for vegetables and fruits.	**Sila El Gharbia:** (1) Refrigerator for potatoes.	**El Taiba Village:** (1) Macaroni factory. (2) Halva Tahnia factory. (3) Sweets factory. (4) Poultry factory. (5) Livestock factory. (6) Collecting center for milk.	* *More job opportunities.* * *More projects.* **Bahdal Village:** (1) Factory for vegetarian butter. (2) More job opportunities.	**Balnsora Village:** (1) Hens. (2)200 FARMS & Factory for feeding animals.	**Manshaat El Maghaika Village:** (1) 11 Sugar cane Squeezers. (2) Vegetables. (3) Near from the Nile. (4) Sugarcane. (5) melon. (6) Mixed crops.	**Delga Village:** (1) Large population. (7,000 *feddans* inside of the valley and is more than outside of the valley. (2) 25km from Dayr Muas. (3) Vegetables in green houses (early production of okra and molokheya especially).
Selected *"potential"* Village # 2.	**Safania Village:** (1) Growing medicinal / aromatic plants. (2) dill and parsley	**El Kom El Akader Village:** (1) Factory for drying onions, garlic and dill. (2) Export them to foreign countries.	**Tambo Village:** (1) Drying onion has stopped. (2) Refrigerator.	**Mettay El Baiad Village:** (1) Refrigerator.	**Defash Village:** (1) Cheese factory.	**Tehneha Village:** (1) Livestock for feeding animals.	**Mens Fees Village:** (1) Tree seedlings.	**Kalandol Village:** (1) Factory for pickles.	**Kafr Hozam Village:** (1) Seven molasses Squeezers.
Selected *"potential"* Village # 3.			**Ashroba Village:** (1) A unit to produce biogas.	**El Kefour Village:** (1) Refrigerator.	**Etsa Village:** (1) Refrigerator.	**Tala Factory:** (1) Organic fertilizers.	**El Fakria Village:** (1) Sugarcane factory. (2) Producers' organization of sugar CROPS.	**Kasar Hor Village:** (1) Factory for pickles. (2) Producing milk. (3) Cattle feeding.	**El Hasiaba Village:** (1) Factory of packing molasses.
Selected *"potential"* Village # 4.			**Safat Village :** (1) A packing station for grapes.	**Aoied Sheke Ali Village:** (1) Packing and separating grapes for export.	**Kolena Village:** (1) Mixing livestock. (2) Feeding cattle.	**Toha Factory:** (1) Organic inputs and fertilizers.	**Abou El Safa Village:** (1) Sugarcane instead of vegetables.	**Tanda Village:** (1) Bees / honey.	**Tall Beni Omran Village:** (1) Cattle feeding.
Selected *"potential"* Village # 5.			**El moedda Village:** (1) Mills (Middle-Egypt).	**Marzook Village:** (1) Refrigerator.	**Aatal Village:** (1) Agricultural ways (mix crops).	**El Borgia Village:** (1) Refrigerator. (2) Feeding animals.	**Abioha Village:** (1) Potatoes.	**Hoor Village:** (1) Factory for Dairy products.	**Nazala El Badraman Village:** (1) Cattle feeding.
Selected *"potential"* Village # 6.				**Komoan Village:** (1) There are three associations (Men Pal, Abou Hesba, and Nazala Xsabet with CARE).	**Maasra Samallout Village:** (1) shops for sallying seeds, pesticides, fertilizers and mill	**Demeheer Village:** (1) Refrigerator. (2) Feeding animals.	**Beni Abeed Village*:** (1) Vegetables.		
Selected *"potential"* Village # 7.					**Koam El-Iofe village:** (1) Apiary for agricultural pilot	**Nazala Abeed Village:** (1) Refrigerator.	**Grees Village:** (1) Sugar beet.		
Selected *"potential"* Village # 8.					**El-twfekia village:** (1) center for collecting milk		**Abo Korkus El Baiad Village:** (1) Cattle feeding project.		
Selected *"potential"* Village # 9.							**El Matahra Village:** (1) Industrial area.		

Table 4.3.9 Candidates for "Usual Villages" and "Potential Villages" in Assiut Governorate

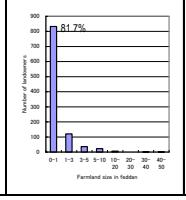
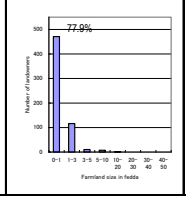
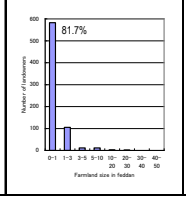
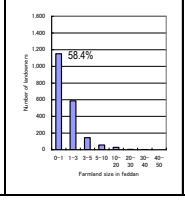
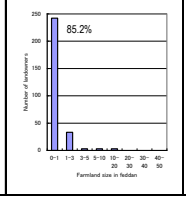
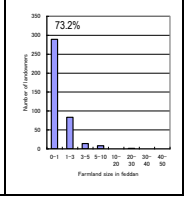
17-May-10

District	Northern Districts				South Western Districts			Eastern Districts			
	1. Dayrot	2. El Kosya	3. Man Floot	4. Assiut	5. Abo Teag	6. Sedfa	7. El-Ghanayem	8. Abnoub	9. El-Fath	10. Sahel Selem	11. El-Badary
Selected "*usual*" Village	Nazlet Farag Village	Al Ansar Village - 1	Nazlet Romeh Village - 2	Naga Abd El Rasool Village	Nazlate Bakour Village	Nazlet El Ablak Village - 1	Al Mashayaa Kebly Village - 2	Al Kadadeh Village	Manshyet Al Maasra Village - 1	Al Loga Village - 2	Al Hamamya Village
Rational	(1) The cultivated land is small. (2) Any agricultural development projects exist. (3) The main source of money is loans from the village bank. (4) Low income from crops.	(1) Small scale farmers. (2) No development projects in the area. (3) Framers' income is low. (4) Finance is loans from banks.	(1) Small scale farmers. (2) Small cultivated area. (3) Low commercial and medical services. (4) Narrow roads and streets. (5) Low individual income.	(1) Small scale farmers. (2) Total area is 498 feddans. (3) Scatted farms. (4) No agriculture projects. (5) Low income and depending on loans from PBDAC. (6) House hold number is big.	(1) Cultivated area is 798 feddans. (2) No projects (development or investment). (3) Low income of farmers. (4) Small scale: 1.5 kerat / person. (5) Unemployment rate is high in the last few years.	(1) Cultivated area is 224 feddans. (2) Small scale. (3) Low income. (4) Decrease in service level of medical and veterinary. (5) Narrow internal roads.	(1) Small cultivated land of 275 feddans. (2) Small scale farmers. (3) No development projects. (4) They cultivate major crops only.	(1) Small cultivated land of 600 feddans. (2) No investment and agricultural projects. (3) Scattered small scale farmers. (4) Tenant farmers are common. (5) Major crops only (wheat, maize and basil).	(1) Cultivated area is 453 feddans. (2) Low income. (3) No medical service. (4) Low education service. (5) Low sewage level in the village. (6) Low electricity coverage.	(1) Low cultivated area. (2) No private projects. (3) No shops for selling crop products. (4) No medical local unit. (5) No good roads. (6) High illiteracy rate.	(1) Cultivated area is 1,228 feddans. (2) Small scale area. (3) Low income and depending on loans from PBDAC. (4) They plant major crops.
Selected "*potential*" Village # 1	**Komboha Village:** (1) Biggest in poultry and egg production.	**Mair Village:** (1) Big cultivated area in reclaimed area in the hill. (2) Presence of projects for fattening & dairy milk production.	**Al Hawatka Village:** (1) Presence of commercial shops and markets. (2) Good medical services (clinics and pharmacies). (3) High income. (4) Big cultivated land for horticulture.	**Mousha Village:** (1) Big cultivated area. (2) Medicinal and aromatic plants (kemon – anise – karoya). (3) Fattening livestock and poultry production. (4) Furniture shops. (5) Farmers' income is high.	**Al Zaraby Village:** (1) Large cultivated area. (2) Presence of industry area which has several projects. (3) Presence of investment projects (opportunities for work). (4) Presence of the agriculture association. (5) Agricultural, sewage, educational and medical services are available.	**Al Dower Village:** (1) Big cultivated land of 4339 feddans. (Wheat, maize and horticultural) (2) Large scale farmers. (3) High income. (4) Presence of all (education, veterinary and medical) services. (5) Fattening livestock projects related to the agricultural association.	**Al Azayza Village:** (1) Cultivated area is 1,095 feddans. (2) Large scale farmers. (3) Non traditional plants (root beet, rice, and medicinal & aromatic plants like kemon, atar and bardakoush). (4) Machinery is used for agriculture.	**Abnob El Hamam Village:** (1) Vegetable is planted in 4,000 feddans. (tomato, onion, fennel and carowya) (2) High income.	**Al Wasta Village:** (1) High educational level in all stages. (2) High level of medical serves including a good hospital. (3) Big station for purification of drinking water. (4) They plant horticultural, grapes, mango, citrus and guava. (5) Major crops: maize, wheat and sorghum.	**El Ghorayb Village:** (1) Industry area. (2) Poultry slaughterhouse. (3) Export office for fruits. (4) Governmental hospital. (5) University has a farm for demonstration. (6) Fruit gardens (pomegranate and citrus).	**El Nawames Village:** (1) Cultivated area is 689 feddans. (2) Private production projects (apiaries). (3) Major crops are sorghum and maize. (4) Medical local unit, school , pharmacies , youth center.
Selected "*potential*" Village # 2	**Dashlot Village:** (1) Big scale holders. (2) High individual income as they work in commerce.	**El Monsha Al Kobra Village:** (1) High cultivated area. (2) Presence of a government project. (3) Poultry farm for egg and meat production.	**Naza Karar Village:** (1) Vegetables planting. (2) Trading in woods. (3) Large scale farmers.	**Al Odar Village:** (1) High production of maize. (2) Fattening livestock. (3) High income.	**Bany Semaa Village:** (1) Large cultivated area. (2) High production of bread and wheat even in all Egypt.	**Awlad Elyas Village:** (1) Breeding livestock. (2) Educational, veterinary and medical services are good. (3) Large horticultural area.	**Dear El Ganadla Village:** (1) Cultivated area is 2,450 feddans. (2) Vegetables, onion, cowpea, tomato and major crops. (3) Reclaimed land from desert is using high technology irrigation methods.	**El Sawalem El Baharya Village:** (1) Large cultivated area if 800 feddans. (2) Medicinal and aromatic plants (basil, fennel and carowya).	**Bany Mor Village:** (1) Sewage, educational and medical services are good. (2) Large cultivated area of 2,500 feddans. (3) High income. (4) Cultivate major crops and fruits (banana, orange and mandarin).	**Al Shamyaa Village:** (1) Large cultivated area. (2) Apple and grape are common. (3) Cultivating tomato, garlic and onion. (4) Youth sport center.	**El Egal El Bahary Village:** (1) Cultivated area is 1,624 feddans. (2) Poultry farms . (3) Major crops are beans, maize and citrus. (4) Schools and medical unit. (5) Sewage under constriction. (6) Water station is about to work .
Selected "*potential*" Village # 3.	**Abou Koraym Village:** (1) High ratio of reclaimed land makes them possible to specialize in vegetables and fruits which they can market to Cairo.		**Al Ezya Village:** (1) The biggest village for fattening livestock and poultry trading. (2) Hay trading. (3) High income (working in commerce).					**Bany Mohamadyat Village:** (1) Large cultivated area 5,500 feddans. (2) Poultry production. (3) wood trading and building materials (cements and iron). (4) Major crops (wheat, maize and basil).			
Selected "*potential*" Village # 4.	**Darout El Sharif Village:** (1) The village specializes in planting and marketing vegetables and fruits. (2) Good price through factories. (Abou Korkas Factory and Alabour Market in Cairo.)										
Selected "*potential*" Village # 5.	**Sanbo Village:** (1) Fattening livestock and sheep.										

4.3.2 Workshops at Village-level

A series of village-level participatory workshops were held at the "Usual Villages" representing six regions of Minia and Assiut Governorates as in Table 4.3.10. Each workshop took two to three hours and there were two sessions. The first session is for participatory analysis by sub-groups using PRA/RRA tools such as "History of the Village", "Trend Analysis", "Rich and Poor Profile", "Calendars" and "Resource Mapping". Then the second session is for plenary Problem Analysis using "Small scale farmers have little income" as the Core Problem. The number of participants was smallest with 95 at El Ansar Village, El Kosya District, Assiut Governorate, and was largest with 386 at Abad Sharona Village, Maghagha District, Minia Governorate. A simplified structured survey of asking whether head of the household or not, age, schooling, farmland ownership and major income sources was done for the minimum of 44 participants at El Ansar Village, El Kosya District, Assiut Governorate and the maximum of 169 participants at Abad Sharona Village, Maghagha District, Minia Governorate. The participants of El Ansar Village were biased especially for women, because there were only officers of village agriculture cooperative and the teachers at the beginning. Only few ordinary villagers joined later. The representatives of the village gave us negative comments at the preparatory meeting for the necessity of female participation for the workshop.

Table 4.3.10 Village-level Participatory Workshops

Workshop Date		12-Jun-10				19-May-10				5-Jun-10				31-May-10				10-Jun-10				14-Jun-10			
Village		Abad Sharona				Abo Haseeba				El Baragel				El Ansar				Naslet El Ablak				Manshyet El Maasra			
Distirct		Maghagha				Matay				Mallawe				El Kosya				Sadfa				El Fath			
Region		Northern				Central				Southern				Northern				Southwestern				Eastern			
Governorate		Minia				Minia				Minia				Assiut				Assiut				Assiut			
Population		10,000				5,000				6,000				14,000				3,000				4,000			
Number of Participants (Male, Female, Children and **Total**)		220	110	56	**386**	63	65	30	**158**	78	34	48	**160**	75	20	0	**95**	37	25	38	**100**	34	40	30	**104**
Number of Participants Registered (Male, Female and **Total**)		128	41		**169**	42	50		**92**	68	25		**93**	39	14		**53**	43	31		**74**	21	23		**44**
Number of Landowners per Farmland Size	Feddan	Landowners		Farmland size		Landowners		Farmland size		Landowners		Farmland size		Landowners		Farmland size		Landowners		Farmland size		Landowners		Farmland size	
	0-1	832	81.7%	432.5	38.3%	471	77.9%	214.6	46.6%	582	81.7%	213	39.2%	1,151	58.4%	565	26.5%	242	85.2%	81	40.4%	289	73.2%	163	37.7%
	1-3	120	11.8%	225.0	19.9%	116	19.2%	146.8	31.9%	105	14.7%	170	31.3%	585	29.7%	615	28.9%	33	11.6%	53	26.1%	83	21.0%	141	32.6%
	3-5	36	3.5%	104.5	9.2%	10	1.7%	38.8	8.4%	11	1.5%	40	7.4%	144	7.3%	316	14.8%	3	1.1%	11	5.4%	14	3.5%	54	12.5%
	5-10	22	2.2%	160.4	14.2%	7	1.2%	49.0	10.6%	11	1.5%	73	13.4%	56	2.8%	245	11.5%	3	1.1%	17	8.3%	8	2.0%	52	12.0%
	10-20	6	0.6%	124.0	11.0%	1	0.2%	11.3	2.5%	2	0.3%	25	4.6%	28	1.4%	241	11.3%	3	1.1%	40	19.8%	0	0.0%	0	0.0%
	20-30	0	0.0%	0.0	0.0%	0	0.0%	0.0	0.0%	1	0.1%	22	4.1%	4	0.2%	80	3.8%	0	0.0%	0	0.0%	1	0.3%	22	5.1%
	30-40	1	0.1%	36.0	3.2%	0	0.0%	0.0	0.0%	0	0.0%	0	0.0%	2	0.1%	68	3.2%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
	40-50	1	0.1%	48.0	4.2%	0	0.0%	0.0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
	Total	1,018	100.0%	1,130.4	100.0%	605	100.0%	460.4	100.0%	712	100.0%	543	100.0%	1,970	100.0%	2,130	100.0%	284	######	202	######	395	######	432	100.0%
	Number of Landowners																								

(1) PRA/RRA

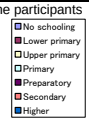
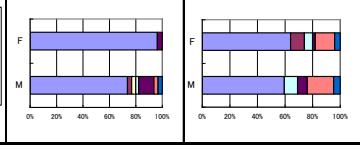
Table 4.3.11 shows the results of PRA/RRA at each "Usual Village". Regarding Trend Analysis, education has gone down in the last five years only in Naslet El Ablak Village, Sadfa District, Assiut Governorate. Income has gone down in the last five years in all the six "Usual Villages". Health has gone down for twenty years in Abad Sharona Village, Maghagha District, Minia Governorate.

Regarding Rich and Poor Profile, villagers think there is no middle class in Manshyet El Maasra Village, El Fath District, Assiut Governorate and Abad Sharona Village, Maghagha District, Minia Governorate. Poor class accounts for 98% and 85% respectively and it suggests the gap between the rich and the poor.

Villagers, both men and women, had little schooling in Abad Sharona Village, Maghagha District, Minia Governorate and it corresponds to that the poor dominates. The schooling level of the participants of El Ansar Village, El Kosya District, Assiut Governorate is unusually high, just because

not so many ordinary villagers participated the workshop.

Table 4.3.11 Major Results of PRA/RRA at "Usual Villages"

Workshop Date		12-Jun-10	19-May-10	5-Jun-10	31-May-10	10-Jun-10	14-Jun-10
Village		Abad Sharona	Abo Haseeba	El Baragel	El Ansar	Naslet El Ablak	Manshyet El Maasra
Distirct		Maghagha	Matay	Mallawe	El Kosya	Sadfa	El Fath
Region		Northern	Central	Southern	Northern	Southwestern	Eastern
Governorate		Minia	Minia	Minia	Assiut	Assiut	Assiut
History		(1) End of the poliomyelitis diseased in the village. (2) Establishment of Trad el Nile which protects the land from flood. (3) Spread of cow diseases which kill a lot of livestock.	(1) There was a revolution in 1919 and the village resisted the feudal system. (2) After the revolution, about 200 feddan was divided into 76 persons by the law of agriculture reformation. (3) Electricity and piped water entered the village in 1979.	(1) The hardest years are from 1993 to 1999. (2) The best year was 1982 when electric came to the village. (3) Piped water became available in the village in 1975.	(1) Established 1700 years ago. (2) Cholera was spread and a lot of children and old people died in 1945. (3) The first primary school was constructed in 1946. (4) Drainage cannal was constructed in 1964. (5) Electricity came in 1976. (6) Village health unit was established in 1978.	(1) Established in 1800. (2) Large number of villagers were killed by disease (Cholera?) in 1944. (3) Cultivation of cotton increased and electricity came in1980. (4) Piped water came in 1987.	(1) Established in 1800. (2) Electricity came in 1979. (3) Piped water came in 1985. (4) Broad bean crops were damaged by some disease in 1990.
Trend Analysis	Time period	15-20 yrs ago / 10-15 yrs ago / 5-10 yrs ago / 0-5 yrs ago	15-20 yrs ago / 10-15 yrs ago / 5-10 yrs ago / 0-5 yrs ago	15-20 yrs ago / 10-15 yrs ago / 5-10 yrs ago / 0-5 yrs ago	15-20 yrs ago / 10-15 yrs ago / 5-10 yrs ago / 0-5 yrs ago	15-20 yrs ago / 10-15 yrs ago / 5-10 yrs ago / 0-5 yrs ago	15-20 yrs ago / 10-15 yrs ago / 5-10 yrs ago / 0-5 yrs ago
	Education				N.A.		
	Health						
	Income						
	Electricity						
	Climate						
Rich and Poor Profile		2-5 feddans, 5 cows, water buffaros, house, donkey and some goats. / No jobs, 5 karat (5/24 feddan) or no land. / *(Poor: 85%, Middle: 10% and Rich: 5%)*	More than 10 feddan, more than 5 cattle, tractor, pumps and car. / Less than 5 feddan, 3 cattle and a pump. / No land and no cattle. / *(Poor: 60%, Middle: 30% and Rich: 10%)*	10-15 feddan, 4-6 cattle, 1 tractor, 1 or 2 pumps and 1 car or track. / Less than 1 feddan, 1-2 cattle and 1 pump. / 1-5 karat, no cattle, no pump. / *(Poor: 60%, Middle: 30% and Rich: 10%)*	Less than 5 feddan, less than 3 cattle and a pump. / No land with daily wage. / *(Poor: 70%, Middle: 25% and Rich: 5%)*	> 5 feddan, > 3 cattle and 1pump. / < 3 feddan and 1-2 cattle. / Not more than 1/2 feddan (12 karat). / *(Poor: 80%, Middle: 15% and Rich: 5%)*	*(Poor: 98%, Middle: 0% and Rich 2%)*
Pair-wise Ranking		1. Wheat, 2. Marjoram, 3. Barseem, 4. Maize, 5. Soybean	1. Wheat, 2. Maize, 3. Barseem, 4. Potatos, 5 Sweet potatos	1. Wheat, 2. Sugarcane, 3. Maize, 4. Barseem	1. Wheat, 2. Maize, 3. Barseem	1. Wheat, 2. Maize, 3 Sorghum	N.A.
Schooling level of the participants							

(2) Problem Analysis

Table 4.3.12 shows the Direct Causes of the Problem Analysis at the village-level workshops and also at the regional level workshops. Priorities of "Production cost is high" and "Small scale farmers cannot sell at good price" are higher at governorate / district-level workshops, but "There are no job opportunities" gets the highest priority, and then "Farmland size is small" at village-level workshops. The priority of "Small scale farmers cannot sell at good price" is not high and that is because most of the participants are landless. Female participants spoke up also and one male participant even complained "Only women are talking and the voice of men is not reflected".

Table 4.3.12 Comparison of the Direct causes of the Problem Analysis at Village-level and Regional level

Governorate	Minia Governorate			Assiut Governorate		
Region	Northern	Central	Southern	Northern	Southwestern	Eastern
Regional Level	**1. Production cost is high.**	**1. Small-scale farmers can't sell at good price.**	**1. Production cost is high.**	**1. Production cost is high.**	**1. Production cost is high.**	**1. Family members are increasing.**
	2. Small-scale farmers suffer from crop damage.	2. Production cost is high.	2. Small-scale farmers suffer from crop damage.	2. Price of the produce is low.	2. Production Is low.	2. Debt from credit is big.
	3. Small-scale farmers can't sell at good price.	3. Small-scale farmers suffer from crop damage.	3. Small-scale farmers can't sell at good price.	3. Debt from credit is big.	3. Price of the produce is low.	3. Agricultural waste is not utilized.
	4. No job opportunities in the area.	4. No job opportunities in the area.	4. No job opportunities in the area.	4. Post-harvest loss is high.	4. Post-harvest loss is high.	4. Production cost is high.
				5. Production is low.	5. Debt from credit is big.	5. Price of the produce is low.
				6. Agricultural waste is not utilized.	6. Agricultural waste is not utilized.	6. Production is low.
				7. Family members are increasing.	7. Family members are increasing.	7. Post-harvest loss is high.
Village, District	Abad Sharona Village, Maghagha District	Abo Haseeba Village, Matai District	El Baragel Village, Mallawe District	El Ansar Village, El Kosya District	Manshyet El Maasra Village, El Fath District	Naslet El Ablak Village, Sadfa District
Village Level	**1. Cultivating land size is very small.**	**1. There are no job opportunities esp. for widows / women.**	**1. There are no job opportunities.**	**1. 70% of the households are landless.**	**1. There are no job opportunities.**	**1. There are no job opportunities.**
	2. There are no job opportunities.	2. Production cost is high.	2. Our produce is small.	2. Rent is very expensive.	2.for M, 3.for W We cannot work.	2. Farmland in the village is small.
	3. Livestock is too small.	3. Farming production is low.	3. Members of a family is too large.	3. Fertilizer and seeds are expensive.	4.for M, 2.for W We cannot sell livestock.	3. There are few livestock.
	4. Farmers cannot sell their produce at good price.	4. We have to buy expensive foods.	4. Farmers cannot increase the number of livestock.	4. Farmland of a farmer is small.	3.for M, 4.for W Production is low.	4. Our production per feddan is small.
	5. "Widows" have no support from the government.	5. We cannot sell our produce.	5. Farmland size is small.	5. Price of crops is low.	5. We can sell only at low prices.	5. We have to sell our produce.
	5. Production is small and smaller than the cost.	6. Number of livestock is small.	6. Farmers are not able to work.	6. We cannot sell our produce.	5. We can sell only few crops.	6. We cannot sell our produce at good price.
	5. Family members are too many.	7. Harvest is late.		7. We cannot sell livestock.	7. It costs a lot of money.	7. We have too much population.

(3) Integrated Objectives Analysis

From the problem trees of the six "Usual Villages", an integrated objective tree was formulated by changing the cause-effect relationship to the means-end relationship. It is like the least common multiple and the integrated objective tree contains all the problems mentioned in the six problem trees.

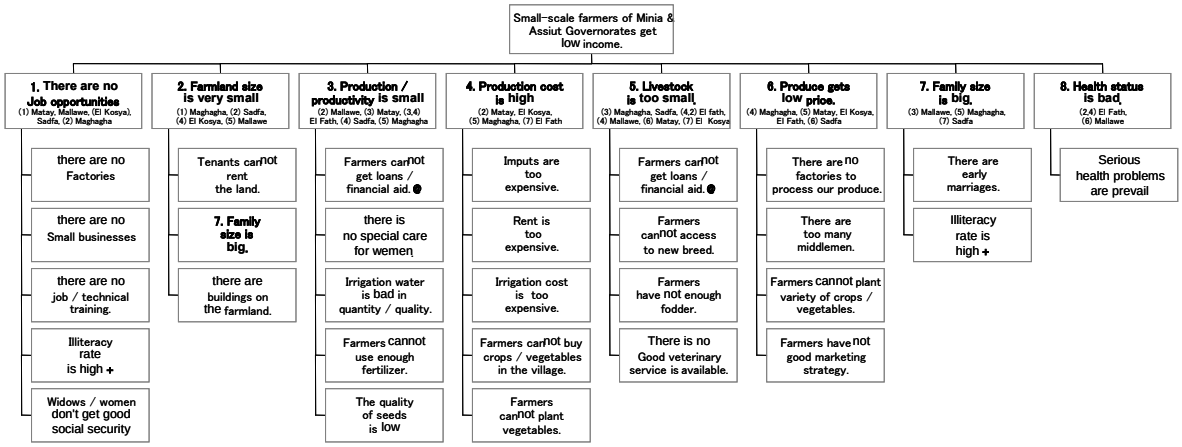


Figure 4.3.1 An Integrated Problem Tree Made from the Six Problem Trees

The priorities of Direct Means from Number One to Number Eight reflect the priorities of Direct Causes in the Problem Analyses of the six "Usual Villages". For example, the Number One Direct Means "Job Opportunities Created" is the situation where the problem "There are no job opportunities" is solved and it was the Number one problem in Abo Haseeba Village, Matay District, Minia Governorate, in El Baragel Village, Mallawe District, Minia Governorate, in El Ansar Village, El Kosya District, Assiut Governorate, and in Naslet El Ablak Village, Sadfa District, Assiut Governorate.

The Number Two Direct Means "Farmland size improved" is corresponding to Number One Direct Cause "Cultivating land size is very small" in Abad Sharona Village, Maghagha District, Minia Governorate, Number Two Direct Cause in Naslet El Ablak Village, Sadfa District, Assiut Governorate, Number Four Direct Cause in El Ansar Village, El Kosya District, Assiut Governorate, and Number Five Direct Cause in El Baragel Village, Mallawe District, Minia Governorate.

There are no priorities for the means next to the Direct Causes. For example, there are "Factories are invited", "Small businesses are established", "Farmers take job / technical training", "Farmers get basic education", and "Widows / women get good social security" in random order as means for the Direct Means of "Job Opportunities Created".

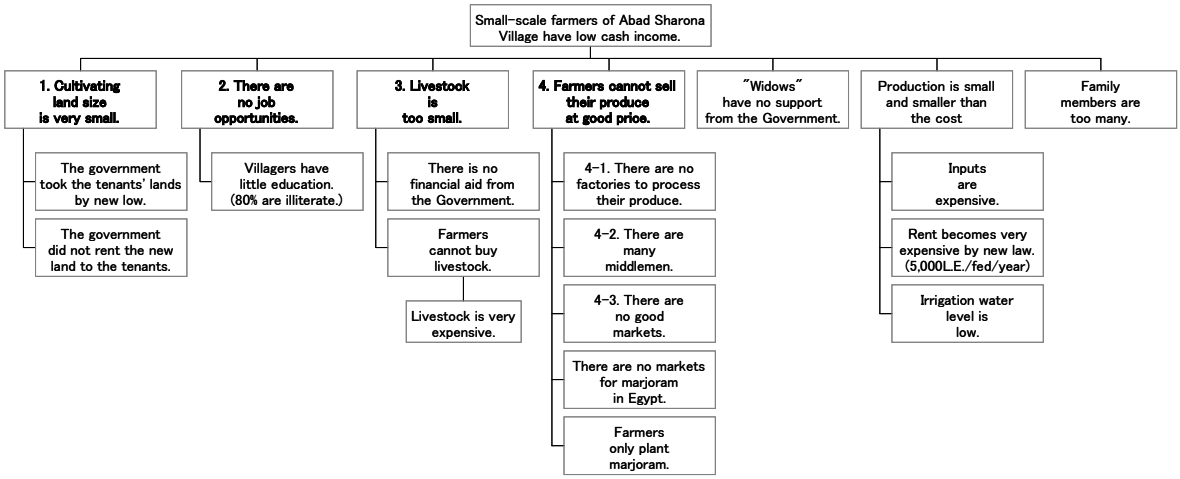


Figure 4.3.2 Problem Analysis of Abad Sharona Village, Maghagha District, Minia Governorate

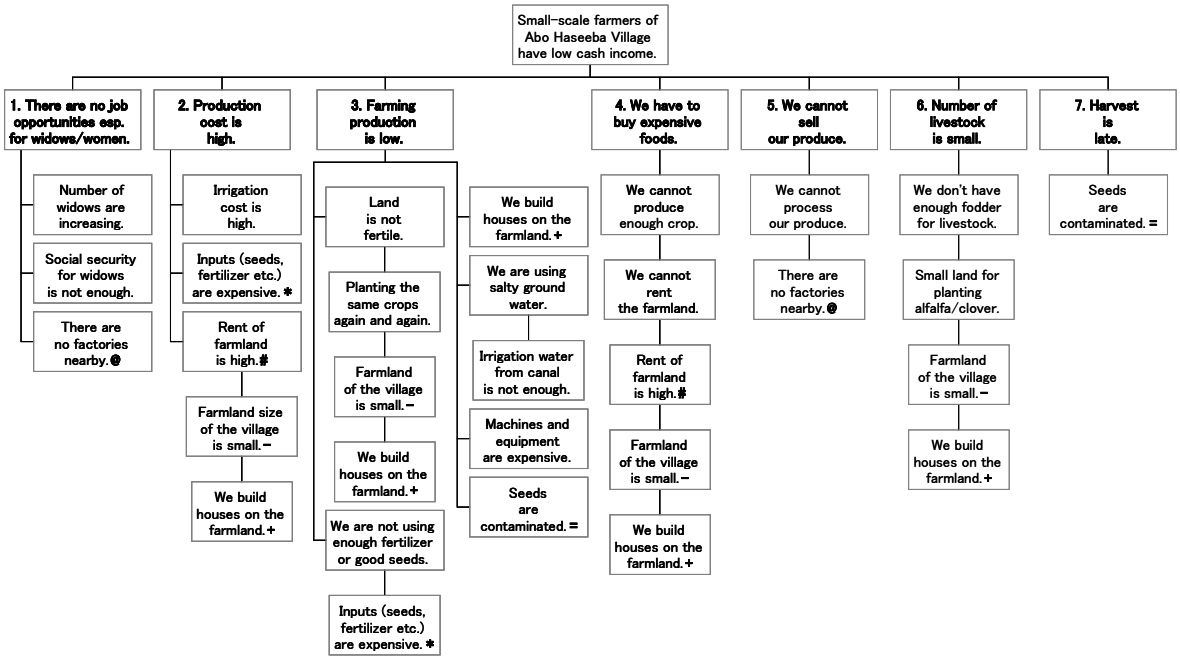


Figure 4.3.3 Problem Analysis of Abo Haseeba Village, Matay District, Minia Governorate

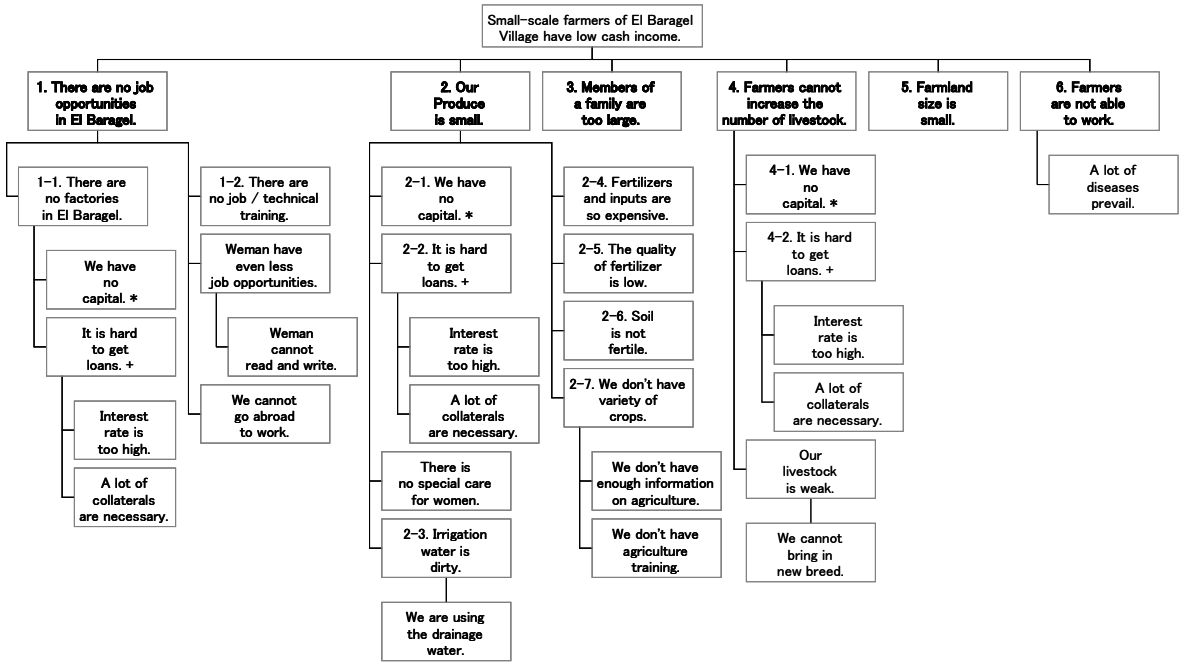


Figure 4.3.4 Problem Analysis of El Baragel Village, Mallawe, District, Minia Governorate

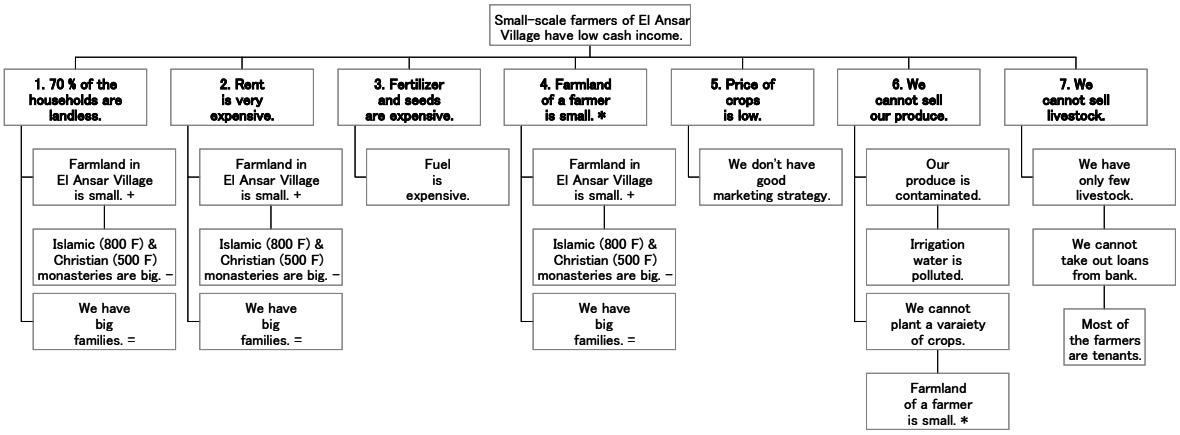


Figure 4.3.5 Problem Analysis of El Ansar Village, El kosya District, Assiut Governorate

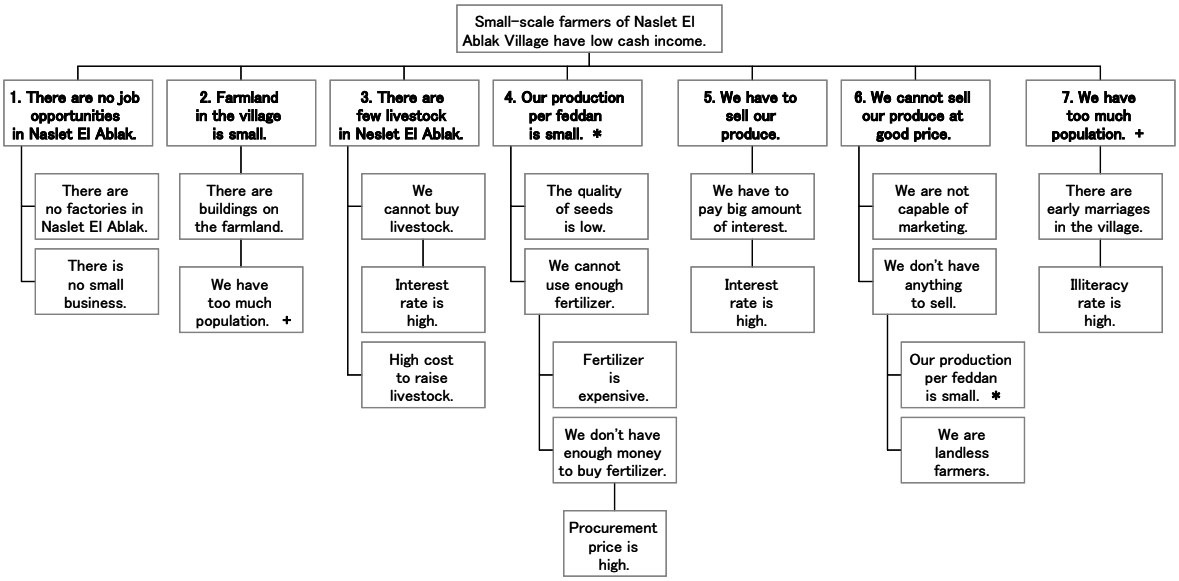


Figure 4.3.6 Problem Analysis of Naslet El Ablak Village, Sadfa District, Assiut Governorate

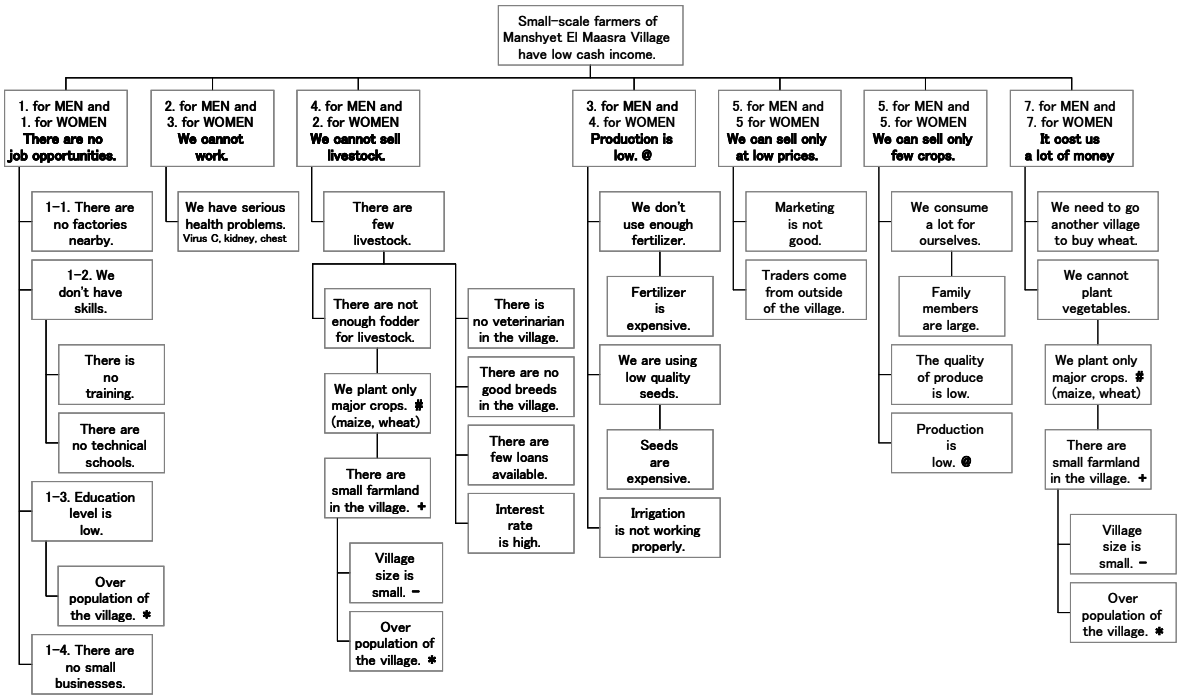


Figure 4.3.7 Problem Analysis of Manshyet El Maasra Village, El Fath District, Assiut Governorate

4.3.3 Problem Analysis of the Focused Crops

From the areas in Minia Governorate and Assiut Governorate where production of cash crops had been well under way, the Study Team discussed with Minia and Assiut Governorates and chose garlic, potato and onion in Minia Governorate, and tomato, basil and pomegranate in Assiut Governorate as the principal crops. Then the Team requested the Governorates to select the major "Potential Villages" which are the centers of production and to assemble about 20 stakeholders including farmers and traders through village agricultural cooperatives to have participatory workshops. The participants ranged from 9 at a potato village of El Borgaya in Minia to 25 at a pomegranate village of El Egal El Bahry in Assiut. The reason why we could not have so many participants at El Borgaya could be because the agricultural cooperative has not played a major role in potato production and its promotion.

Table 4.3.8 shows the result of problem analyses at the six villages according the stages of the value-chain.

[Input] The priority issues of input are irrigation cost for garlic; the price of seeds for potato; the price of pesticide for onion, tomato and pomegranate; and the price of fertilizer for basil.

[Production] The priority issues of production are shortage of growing information and pesticide for garlic; shortage of water, quality of imported seeds and pesticide for potato; quality of seeds, temperature (too low in January and too high in August) and late planting & early harvest for onion; quality of seedlings for tomato; no promotion policy by the government for basil; and frequent pests for pomegranate.

[Post-Harvest Processing] The priority issues are need to keep green and no cold storage for garlic; too much loss and no processing for tomato; loss through drying for basil; and no cold storage and no processing for pomegranate.

[Sales and Marketing] The priority issues are small amount of purchase by exporters for garlic; no export for potato and onion; too much product at the same time and no power in market for tomato; no information on international price for basil; and no processing and control by the companies for pomegranate.

Figure 4.3.8 shows the common problem analysis of the six principal crops. According to the stages of value-chain, the priority issues are in [Input] stage for garlic and tomato; in [Production] stage for onion and pomegranate; and in [Sales and Marketing] for potato and basil.

If you look into the details:

[Input] 1. Irrigation cost is high for garlic; 1. Pesticide is expensive, and 2. Fertilizer is expensive for tomato.

[Production] 1. Quality of imported seeds, and 2. Temperature was too cold in January and too high in August for onion; 1. Pests occur frequently, and 2. We don't know good fertilizer for pomegrahate.

[Sales and Marketing] 1. No export for potato; 1. No information of international price, and 2. Few number of traders for basil.

Table 4.3.13 Summary of Problem Analysis of Principal Crops at "Potential Villages"

Stage of Value Chain	Minia Governorate						Assiut Governorate					
	Salakos Village, El Edwa District		El Borgaya Village, El Minia District		Delga Village, Dayr Muas District		El Hawatka Village, Manfloot District		Arab El Kadadeh Village, Abnoub District		El Egal El Bahry Village, El Badary District	
	Garlic		Potato		Onion		Tomato		Basil		Pomegranate	
	Workshop Date: 24 Aug. 2010		Workshop Date: 28 Aug. 2010		Workshop Date: 31 Aug. 2010		Workshop Date: 2 Sept. 2010		Workshop Date: 6 Sept. 2010		Workshop Date: 1 Sept. 2010	
	Participants: 13		Participants: 9		Participants: 24		Participatns: 12		Participants: 15		Participants: 25	
Input	1. Irrigation cost is high.		4. Production cost is high.	4-1. Seeds are imported. 4-2. Fertilizer is expensive. 4-3. Wage is expensive. 4-4. Pesticide is expensive. 4-5. Water is expensive.	4. Production cost is high.	4-1. Pesticide is expensive. 4-2. Fertilizer is expensive.	1. Production cost is high.	1-1. Pesticide is expensive. 1-2. Fertilizer is expensive. 1-3. Need a lot of fertilizer. 1-4. Seedlings are expensive. 1-5. Wage is expensive.	3. Production cost is high.	3-1. Fertilizer is expensive. 3-2. Wage is expensive. 3-3. Irrigation cost is high.	3. Production cost is high.	3-1. Pesticide is expensive. 3-2. Fertilizer is expensive. 3-3. Wage is expensive. 3-4. Irrigation cost is high. 3-5. Machines and fuel high.
Production	4. Quality is not the best.	4-1. Not enough growing information 4-2. No special pesticide.	2. Potatoes die.	2-1. Water is in shortage.	1. Quality is not high.	1-1. Quality of seeds is bad. 1-2. Temp was low in Jan. 1-3. Don't plant at the right time. 1-4. Harvest too early. 1-5. Temp is too high in Aug.	2. Production is low in summer season.	2-1. Seedlings are bad. 2-2. Tomato is damaged.	4. Production is low.	4-1. No promotion by government. 4-2. Farmland is used for drying. 4-3. No information on production techniques.	1. Quality is low.	1-1. Pests occur frequently. 1-2. Don't know good fertilizer.
	4. Production / productivity not enough.	4-1. Not enough growing info.	3. Productivity is low.	3-1. Quality of imported seeds. 3-2. Quality of pesticides.	2. Production is low.	2-1. Quality of seeds is bad. 2-2. Harvest too early. 2-3. Diseases especially white rot.						
Post-Harvest Processing	6. A lot of damage after harvest.	6-1. Need to keep green for export. 3-2. Must have cold storage.				3-1. Onions are damaged.	5. Too much loss.	5-1. Can't process tomato. 5-2. Leave tomato in field.	2. Post-harvest loss is big. (25 %)	2-1. Damaged by drying. 2-2. Harvesting method is bad.		2-1. Can't process. 2-4. Can't store.
Sales and Marketing	2. Exporters take only little.	2-1. Only take class 1.	1. Farmers can't sell at good price.	1-1. No export of potatoes.	3. Price is low.	(3-1. Onions are damaged.) 3-2. No export to Arabic countries.	3. Price is low in winter season.	3-1. Too much product at the same time. (3-2. Can't process tomato)	1. Price is low.	1-1. Don't know international price. 1-2. Few number of traders. 1-3. Farmers have to accept low price. 1-4. The price for 4-5th harvests is low.	2. Price is low.	(2-1. Can't process.) 2-2. Companies control. 2-3. Few traders. (2-4. Can't store.)
	3. Cost of export is high.	3-1. Requires package / cover. (3-2. Must have cold storage.)					4. Selling price is not stable.	4-1. No power in market. 4-2. No market information.				
	7. Price of export is not fixed.	7-1. No agency to promote export. 7-2. International price varies.									4. Some exporters don't pay.	4-1. No information on exporters. 4-2. No direct relation farmers / exporters.

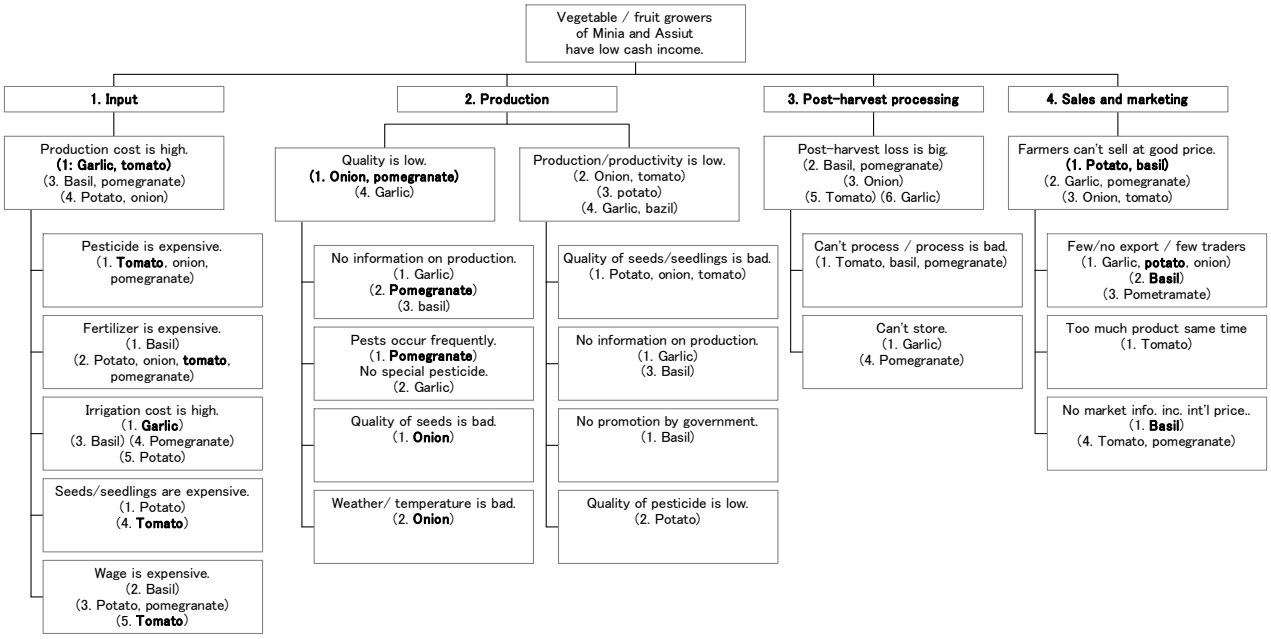


Figure 4.3.8 An Integrated Problem Tree of Principal Crops

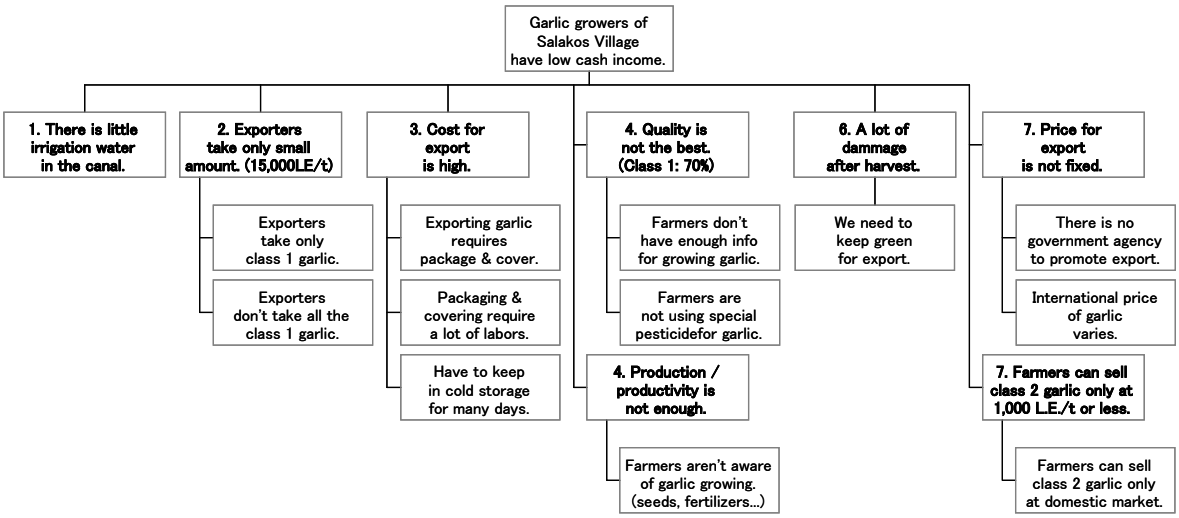


Figure 4.3.9 Problem Analysis of Salakos Village, El Edwa District, Minia Governorate

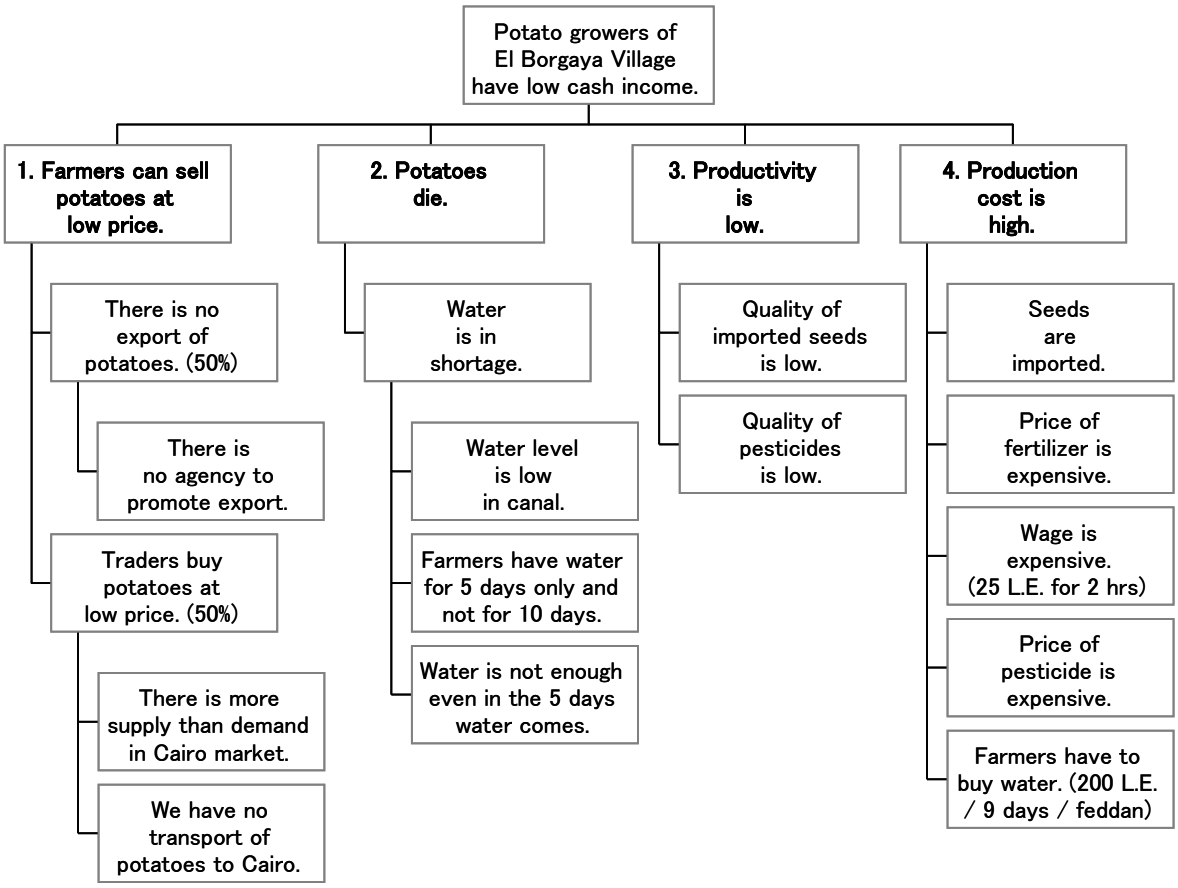


Figure 4.3.10 Problem Analysis of El Borgaya Village, Minia District, Minia Governorate

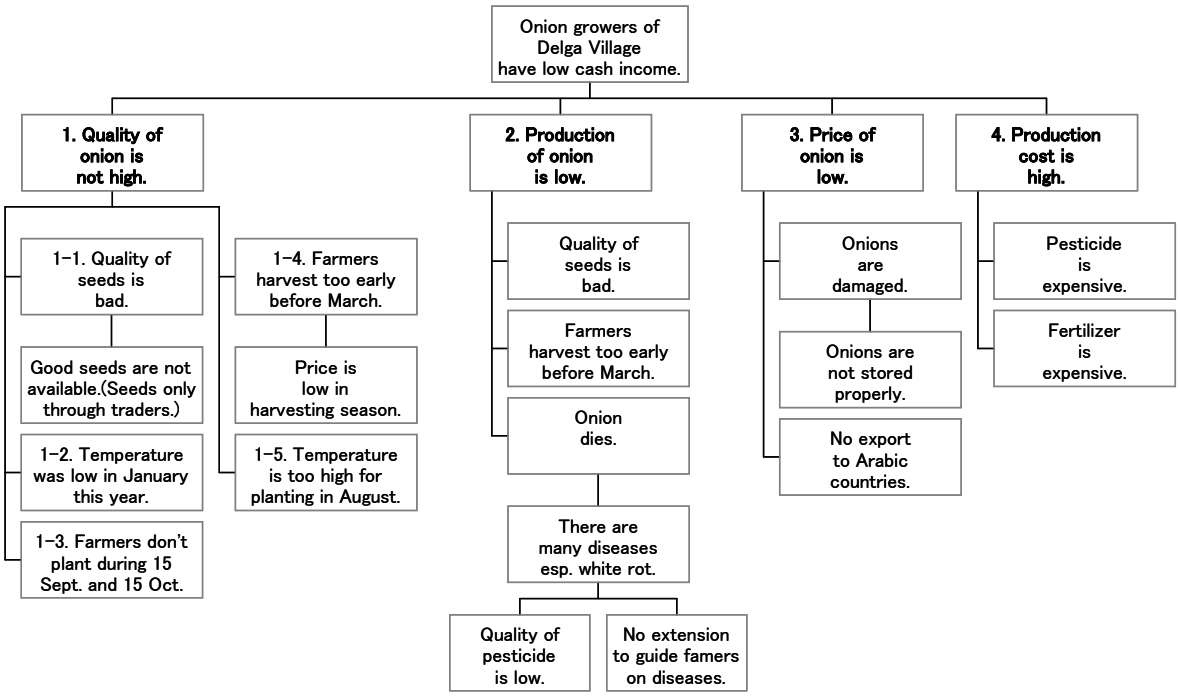


Figure 4.3.11 Problem Analysis of Delga Village, Dayr Muas District, Minia Governorate

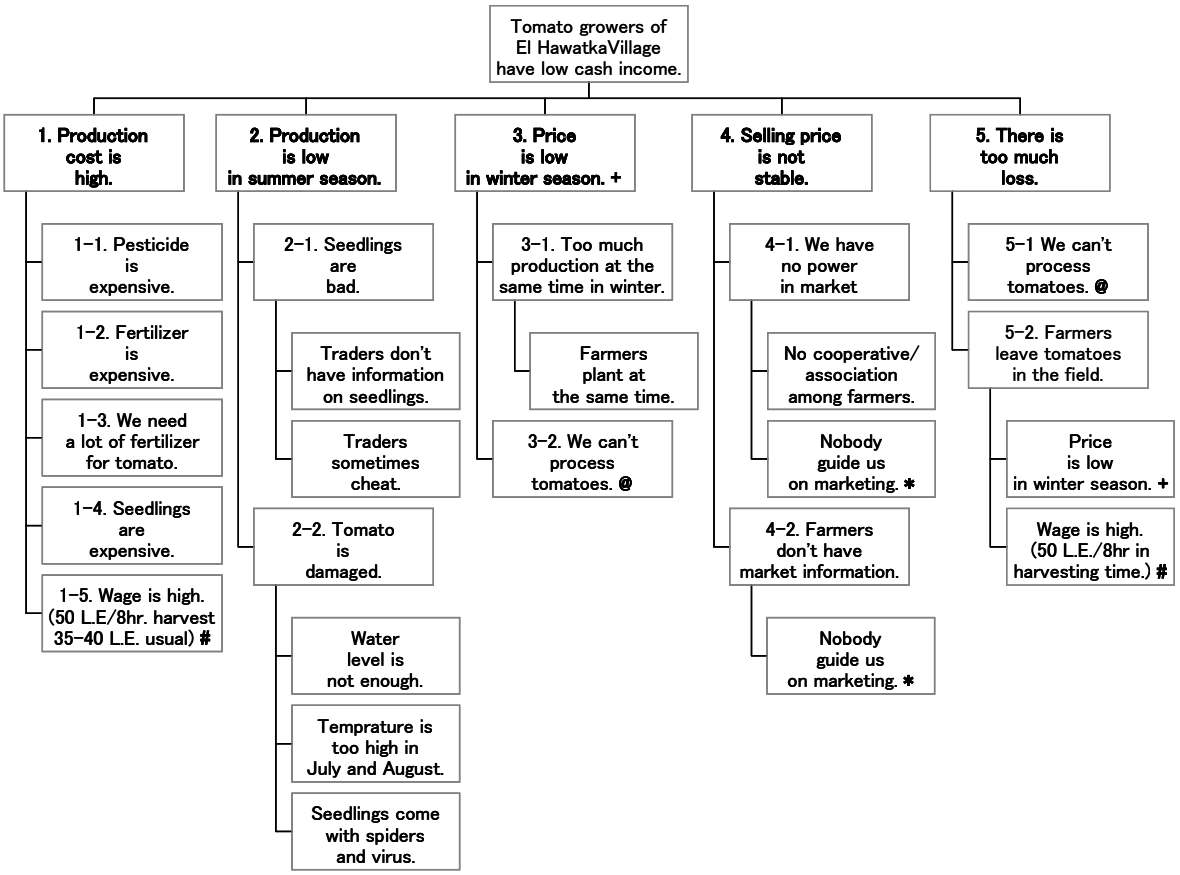


Figure 4.3.12 Problem Analysis of El Hawatka Village, Manfloot District, Assiut Governorate

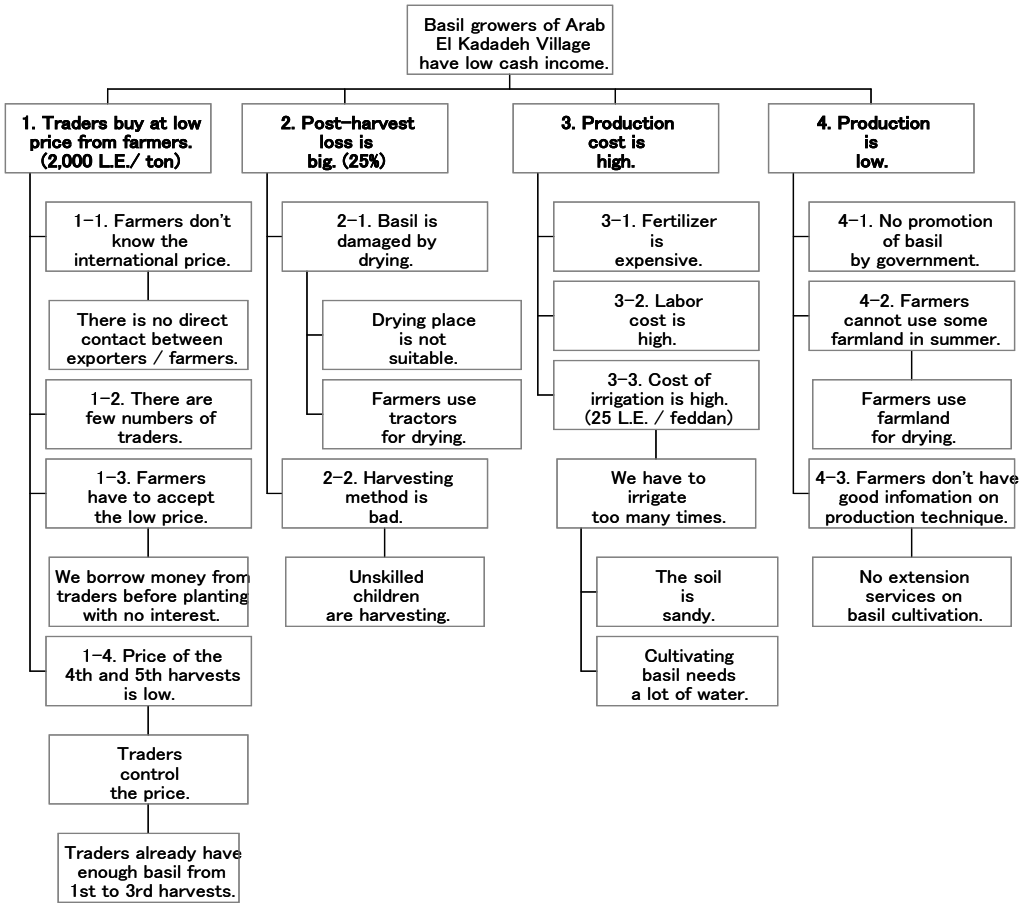


Figure 4.3.13 Problem Analysis of Arab El Kadadeh Village, Abnoub District, Assiut Governorate

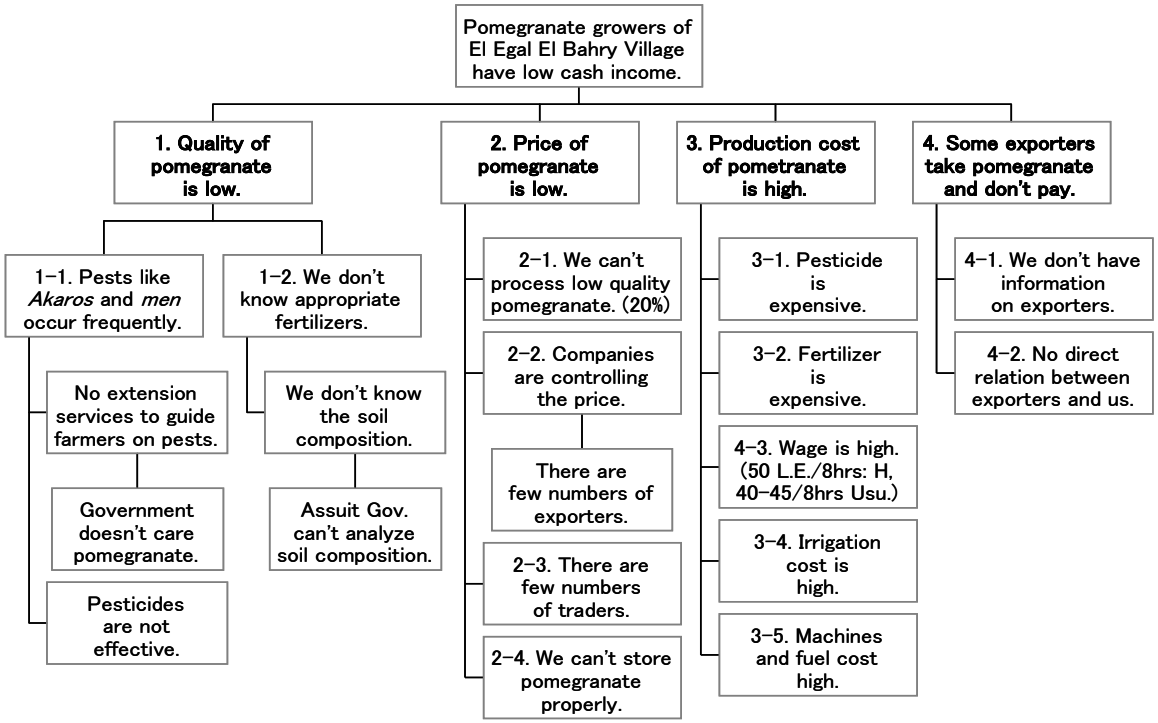


Figure 4.3.14 Problem Analysis of El Egal El Bahry Village, El Badary District, Assiut Governorate

APPENDIX 4.4 Interviews to Farmers

(Interviews undertaken from April 2010 to September 2011)

Dayr Muas District, Delga Village

Mr. M.A

First because of my mother has inherited money from her father, so that I could rent 1 feddan farmland at the beginning of December 2009, I planted seeds of onion from 20 of December 2009 to 5 of January 2010. I bought the seeds from a trader, who bought them from Qena Governorate, Upper Egypt. We needed 1 – 1.25 kg onion seeds per karat (1/24 feddan). I planted onion in 1/2 feddan and wheat in another 1/2 feddan together at the same date. Yield was not so good for both onion and wheat. This I think because of the bad weather. It was very hot at the end of February and the crop became mature before it is time. Production has been very low since three years ago. Traders from the village came and bought all the produce. Also many farmers plant the small onion to produce the big onion. As 6 Ardabs of small onion is enough for 1.5 feddan (as seeds). I planted sunflower after wheat three months later and maize after onion 2.5 month later. I keep wheat and maize only for home consumption not for selling as production of this ½ feddan is enough for my family.

El Bahry District, El Egal El Bahry Village

Mr. K.A :

We are 3 brothers farming our one feddan together as our father passed away recently whose name is registered in the agriculture cooperative. But at the end of this year, we are going to divide the one feddan inheritance on us and change the holdings to be 8 karate each however, we will still continue cultivating together not separately. Last summer crop was Maize and Wheat in last winter, now we decided to start cultivating pomegranate because of the success stories we are hearing in the village. As I think our soil is suitable for pomegranate to grow healthier, we can get a high selling price and a good market, also many traders buy pomegranate, even I can go to sell it on El Bahry wholesale market. But unfortunately this year the yield is low because of the bad weather. And temperature started to go up in January- February and temperature was not so cold as it is supposed to be. Farmers were doing covering of the fruits before, but not anymore, because the cultivated farmland was smaller, weather is better and diseases were fewer. from February to September, we have to spray 12 times. To spray 1 feddan, we need three persons for two days. Living standard and level of education are high in this village in general. Some families are very poor, but still they send their children to school and some of them become even doctors and judges. They send all the children to school anyway. Some succeed and go all the way, and some fail.

Minia District, El Borgaya Village

Mr. M.M

I am 70 years old. My wife passed away 5 years ago. I have one son and one daughter. I live with my son and his family, but I don't remember my son's age. My daughter is married in Zohra Village too. Her husband sells sugar and tea in the village. I have 8 karat, I also work as a labor, and I rent a farmland, in the rented farmland, I can plant what I want and I can change the land every year. First I planted maize in May. It needs 3 to 4 months to be matured, so that harvesting was in July. Then I planted potato in early August as a winter crop. It needs 4 month to get matured potato, so I will harvest at the end of December. Then I will plant wheat in January and harvesting will be in April. Irrigation water comes only for 5 days and shut for 10 days, I need two hours using an engine pump to irrigate the farmland, I irrigate four times per 4 months for potato. We get all the harvest of potato and go to the wholesale market in Cairo; we usually rent a truck at 400 L.E. together with two other farmers. My son drives to Cairo. Potato is for selling, but maize and wheat I keep only for home consumption, and some time we can sell the surplus of wheat.

Mallawe District, El Baragel Village

Mr. M

My job is rope making and I have been doing that for all my life. We make ropes from palm bark, As for me and my wife, we have been doing that together for 25 years since we got married. We make 500 ropes (of 1 m) in a month. We need around 5 hours to make 100 ropes. Since we have other things to do, however, it actually takes about three days to make 100 ropes by two persons and it takes a month to make 800 by two persons. My first son is working as a labor in building construction in Cairo or sometimes in Mallawe Town. He works 15 to 20 days a month and earns 25 to 30 L.E./ day. He stays home for 10 days in a month, my second son I give him 5 L.E. a day for daily expenses such as transportation and breakfast. The second born also goes to Cairo after the exam.

Mr. M I am a guard in Cairo. I have been living in Cairo since 20 years ago. First I was a labor like a porter, but I have been a guard of apartments for five years now. I am with my family in Cairo now and I am just here in a visit to the village. I have seven children. I cannot work as a labor anymore because I have a health problem. I can make 20 L.E./ month besides the salary of a guard such as washing cars. We also make ropes. Mother and three sisters work together, make 100 m / day.

Ms. H.K.M I would like to work at a clothing factory. I was working in a factory in Giza for 3 years. I was in Cairo with my uncle. It was 7 to 8 years ago and I was making 150 L.E./ month. It is probably around 450 L.E./ month, if I work there now.

El Fath District, Manshyet Al Maasra Village

Mr. A

Iam a bakery owner, in the bakery we make 4,000 pieces of bread everyday for 4,000 villagers of Manshyet Village from 400 kg of wheat flour from the government. We sell bread at 1 L.E. for 20 pieces. We work from 6 AM to 10 AM; 6 to 8 AM (2 hours) we need for preparing material and put it into the bread oven, and 8 to 10 for taking out the breads and arranging it. It was better two years ago when I started this small business. Now I want to do something like small feed factory.

Mr. M

Iam a tenant, and most of the tenants rent from 6 to 10 karat. The owner of the farmland is a physician in Assiut and lives in another village. He probably has about 10 feddan of farmland in this village. In winter season, I plant alfalfa and wheat in rotation. In summer season, I plant traditional crops like maize for food and sorghum for fodder, I rent a tractor at 50 L.E./ 2 hours twice a year. The soil needs to be soft for alfalfa, so we do three trips of tractor for winter season and two trips for summer season. We need two laborers beside four men from the family for two days in winter and two days in summer. The wage is expensive here because not so many laborers are available in the village. For harvesting, we need six laborers on May for four days in case of wheat. Wheat and maize are not for selling. We pay the rent from the cash we get from selling cattle. We also do labor too in other farmland.

Mr. A

I am 23 years old. I am cultivating my father's land of 6 karat. My father went to the hospital. (He comes back soon.), (father)The first son is 33 years old. He is a clothes seller in Cairo. He works 1.5 month in Cairo and stays here for 10 days. The second son is Mr. Abd El Sabor who is 25 years old. He is a food seller in Cairo, They live in the house of my father's second wife

Abnoub District, Arab El Kadadeh Village

I was born in Arab El Kadadeh Village and our kabela is Hagaly. There are only two families of Hagaly in this village. I don't know where our kabela came from. All I know is that they settled here 5 generations ago. My daughter's husband works one or two months in Cairo and stays at home for 10 or 15 days. I have three feddan which I got from my grandfather as an inheritance and I registered it in agricultural cooperative.

El Kosya District, El Answar Village

Ms. H

I am a housewife and I have never worked outside my house. I have never earned any money either. My sisters and my mother are also like that, I just bought 10 chicks this week at 40 L.E. We like poultry very much because we can get eggs as a food and can sell the chickens and get money. My husband is a labor and he is from this village. He belongs to El Zawahar kabela and I am also from the same kabela. The people of El Zawahar kabela live only in El Answar and El Gohma villages in El Kosya District, husband works 10 days per month in harvesting season. Otherwise, he works 7 days per month in summer and 5 days per month in winter. Most difficult months are November and December. He gets 15 L.E. per day with two meals. I have never been to Assiut or Dairut. I go to El Kosya 5 or 6 times a year because there is a hospital. I take our children there. I want to do sewing because it looks easy. I want to make galabya (clothes) and sell. I just sit in the street and talk with neighbors **Ms. N** I rent 11 karat of farmland and also the house I took from the monastery. I got the contract 20 years ago. I was a labor and many other peoples got contracts also. I pay 600 L.E. for renting farmland. I plant wheat and maize. The production is 5 ardabs (750 kg)of wheat and 3 ardabs (420 kg). Since it is not enough, we buy 7 ardabs (1,050 kg) of wheat and 5 ardabs (700 kg) for family consumption. I do farm labor twice a week. During harvesting season, maybe 4 days per week. I sometimes go to other villages too. I don't use any labors for my farmland since we have three members and myself.

Mallawe District, El Baragel Village

Ms. M. and her sisters I got married when I was 16 years old, and stayed there for one year, but I got divorced. My ex-husband was my mother's sister's son and my uncle told me to marry him. He is like a brother to me and I could not love him. Since I am the one who want to get divorced, I have to leave everything there; the ring, chairs, a stove, a bed etc. If he asked me to get divorced, I take everything and money. It is written in the contract between the husband and the wife. The husband and two witnesses sign. Money, for example 8,000 L.E., is also written in the contract. If they got children, the husband has to pay some money too. Ms. H: attended the eliminating illiteracy program, and then she went to Cairo for work. She can only write her name though. Our father didn't allow us to go to school, because there were many incidents on the way to school. Ms E : Life in the village is same. No cash income other than from cultivation, so husband goes to Cairo as a brick porter. He works in Cairo for one month, and then stays home for one or two weeks. Ms H was working at a private clinic in her village, but she has to stay overnight in the clinic and she does not like that. **Mr. K. A.Z:** I inherited the rope making job from my grandfather. I have never thought of doing something else. I was a laborer before, but it was long time ago. I had a serious sickness and which after that affected my right leg and hand. I have been only making ropes. My son wants to work abroad in Arab countries, but he stays here because he cannot leave me alone. We buy the materials, palm bark, at El Mharas Village, and my son and his wife sell the products at Mallawe Town.

Maghagha District, Abad Sharona Village

Mr. A

I belong to Awlad Hamad Family. The Family has lived in this hamlet since 200 years ago. There are about 10 families or 150 people in Abou Meleeg Hamlet of Abad Sharona Village.

I inherited 8 karat of farmland from my father. My father had 32 karat and we are four sons. So that each one of us got 8 karat. Daughters got cash only. I have four sons and four daughters, so I will give 2 karat each to a pair of son and daughter. Then the son gives cash to the daughter. Since the son gets 1 and the daughter gets 1/2, the son pays the value of 1/2 karat to the daughter. The value is 5,000 L.E. Since the land size is very small and daughters leave the house, they prefer to have cash. I planted alfalfa for 4 karat and maize for another 4karat. I also rent 1 feddan at 5,000 L.E/year. During winter season, I plant alfalfa for 0.5 feddan and wheat for 0.5 feddan. During summer season, I plant maize for 1 feddan. I have one cow and one goat, so that we have enough milk, butter and cheese. I take out a loan of 3,000 - 4,000 L.E. from Aba (Village) Bank twice a year. I borrow on December for winter season (wheat) and pay back in June. I borrow in June for maize and pay back in December.

Mr. B

My father Mr. M.A.M, who is 80 years old, lives next door. We made a wall and divided the house into two. He became blind since 30 years ago. He had a headache and a high fever and became blind. He wasa laborer too. There is a place in the village, where landowners and laborers get together. We go there at 5 PM and if I find a job, I get paid for the next day's work. If I become sick, I go to the health unit in the village. I can get a tablet at 1 L.E. If I need to have an injection, I go to pharmacy and the pharmacy doctor gives me an injection. There is a government program so we take a child to the health unit to get vaccination every year from 1 year old to 6 years old. The size of the room is 30 m2. There is a backyard, toilet / bathroom and also another room upstairs, where there are chicks.

Village Bakery owner

The owners are brothers. Mr. R.M.G, who was a driver, but he quit because his father wants him home and bought the bakery for him. He rents 1 feddan of farmland. He says he would rather be driving. the system is like this. A rich farmer bought the donkey and goats and we are taking care of them. After we sell them, we share the profit 50:50. Many people are doing it.

Matai District, Abo Haseeba Village

Mr. H.M.O There is a Haseeba village in Maghagha District, and also in Sharkya Governorate. Our ancestors are from El Sheak Haseeba in Assiut Governorate. I heard that Haseeba came here in 1887 to escape from flooding at El Sheak Haseeba in Assiut Governorate. A brother of 7. Bakr went to Sharkya Governorate and started Haseeba Village there.

Mr. R I am a pick-up driver. I used to own a car, but now I don't. So I work for the owner of a car. I drive in the village and the district. I don't cultivate since 2006, I got an accident and damaged my left hand. That is why I quit driving. My first brother is 43 years old and working as a farmer in Jordan. He works in Jordan for two years and comes back for one month. He started doing that from year 2000 so he has been doing for 10 years now. The third brother is 36 years old. He is a farmer here and a porter in Cairo. The fifth brother is 30 years old. He finished primary school (6 years). He is not married and he went to Jordan as a driver one month ago. He will stay there for 1 or 2 years. The last brother he is a porter for a furniture shop in Jordan, and he is there for 4 months now. He will work there for 1.5 to 2 years more. Three adults (mother, son and his wife) and three children live here. Mr. J E built this house in 1963 and we don't rent rooms. Depending on who are going to live in the house, we divided into more rooms or we sell and buy the rooms among brothers and sisters.

Mr. A.A.F I have 9 boys and 6 girls in the house. My father is 74 years old and my mother is 65 years old. Father, mother and 8 of my brothers and sisters including wives live in a room. I and my wife and 4 children live in another room. 15 people live in the house all together. I got a contract to work as a laborer for the government bakery in the village. I applied to the local council six months ago and I got it three days after you came here. I have no holidays. I work on Friday too.

Mr. K.A.M My mother lives with me. She is 90 years old. She was divorced and married again to my father. So my elder sister had a different father. My first wife passed away so I married again. The first-born is from my first wife which is from this village. My first-born she married to a farmer in this village. He went to Cairo and is doing porter job. They stay in Cairo for one month and come here for the weekend. They have their own house in this village. There is a civic association called Agricultural Development Association and rich people donate money. Every year at Id Al-fatr, we get sugar, rice and money for my daughter's education.

MS. R Textbooks are expensive. I borrow from my friends too. I am studying Arabic language and literature, and I want to be a teacher. But there are few job opportunities and it is difficult to find one. I was with 6 girls from this village. I went to girls' preparatory school in the village, and there were 48 girls in the class. I don't know how many girls were in the primary school, but there were 5 classes.

I am a joint owner of a water buffalo. Another farmer and I own one. It produces milk and butter for home consumption. I plant crops, pepper and other vegetables in my 5 karat (5/24 feddan) land. We share the produce 50:50 with the landowner.

Matai District, Abo Haseeba Village

Ms. B.E I bought tree which is called Ficus about 10 days ago. I planted one here and I will plant three in the cemetery. The tree is very expensive at the market, but I paid only 5 L.E. per one from whom I know. We only buried in the morning, but we can bury at night because we get electricity and water at the cemetery from 30 years ago. Nobody is doing pot cultivation in this village, but they are doing near the district capital. I have some interest in that, but our house is made of mud brick so that we can build only two floors and a half of the third floor. Rich people have houses made of brick and they can build up to five floor.

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Sadfa District, Naslet El Ablak Village

Mr. O.A I was born in the west side of the village, and I was a laborer. I came to this house in 1993 when my son bought a house. I lived in my father's house before. The second born, He was working in Saudi Arabia as a laborer in building construction for 15 years. He went there first when he was not married, and he also went there after he got married. There are 10 kebelas in Naslet El Ablak Village. We belong to El Dick Kebela and there are 150 families of El Dick Kebela in this village. There are some in Alexandria, Assiut Town and Megrace Village. Those are the families emigrated from here. I heard that we came from Qena more than 100 years ago.

Ms. E.A My husband passed away. My son is working as a laborer. He usually works one week per month. He works all the month in the harvesting season like in May.We raise chicken and ducks. We have a duck, 5 chicks and 5chickens. We can sell 3 eggs at 1 L.E. We collect and sell them once a week. I also get 80 L.E./ month from the Social security. It was the decision of President Sadat, and the poor and the widows get the money.

Refa Village, Assiut District, Assiut Governorate

Girls of the processing unit

Ms. S.R.F

I am 21 years old and I work in the processing unit, I finished deplom (middle school) in 2008. I got married at 18 years old and I have two children. I always bring them to my mother during my work here. This is my first job. From my wage, I buy sweets to the children. Since the wage is not enough, so I spend all wage to the children.

Ms. H.H.S and Ms. S.H.S

we are 28, 31 years old respectively, We are sisters and we graduated from middle school. Ms. H. got married at 19 years old and Ms. S. got married at 21 years old. We can choose to work outside if we want. because our husbands' salary is low so we worked for an evening adult education program by an Islamic association for one year. We got 150 L.E./ month. Ms. Samira worked at Assiut University for 5 months without any holidays and got 160L.E./ month. She paid 2 L.E./ day to Assiut and back, and it takes 45 minutes.

Ms. N.O.A

I am 21 years old, I graduated from middle school. I have been engaged for 6 years from 15 years old with a cousin who is from the same big family living together. I have no job experience. I use my wage preparing for wedding**.**

Ms. A.K.A

I am 17 years old, I didn't go to middle school. But I went to primary school (5 years) and Jonior high school (3 years). I was engaged for 1 year at 16 years old, but there is no plan for wedding yet. I have started preparing for wedding, so I spend all wages I got for that.

Ms. W.H.H

I am 23 years old, I finished middle school. I've been engaged for 2 years and I am going to get married after the coming feast My fiancé is a nurse and started to work in Minia only 1 week ago. He needs to work whole year in Minia, but we expect that he can come back on Fridays from the second year. I am buying things for wedding using the wage from processing unit. I worked for a sweet factory for 1 year at 150 L.E./ month. I quit because working hours have increased from 6 AM - 3 PM to 6 AM – 6 PM without increasing the wage. It took 2 L.E./day for transportation and 45 minutes one way. Any women, whether married, engaged or not, can work, but not in the field.

Manshyet El Maasra, El Fath District, Assiut Governorate

Mr. M.M.E

I am 48 years old, Head of supervisors of the cooperative): I graduated from middle school (agricultural diploma) and spent 2 years in the Army. I was assigned here in Manshyet El Maasra in 1978 as a land protection supervisor. I was in the position for 10 to 12 years. Then I was a cotton supervisor for 4 years. I became the head of supervisors 2 years ago.

El Baragel, Mallawe District, Minia Governorate

Mr. D.M.A

I am 47 years old, I am working as a general manager of Supervisors. I have agriculture diploma. When I completed in 1991, it was an old system and I could get diploma 3 years after junior high school. Now we need 2 more years to get agriculture diploma. I was assigned to El Baragel as a supervisor in 1991, and I became general manager 5 years ago in 2006.

El Ekal El Baharey, El Badary District

Ms. N.M I am 22 years old, I graduated from faculty of engineering computer science department, I was married since three years ago. I have one daughter, who is 1 year old, and my mother-in-law is taking care of her while I am working here. I knew about the processing unit from Mr. Refet, the manager of the processing unit. He is my mother's brother. There is no opportunity at all in this village. There are no factories nor traders. I wanted to find a job in Assiut, but I couldn't. It takes 45 minutes and 2.5 L.E/ one way to Assiut.

Ms. S.R I am 19 years old, I am a student of Islamic Study, a four-year program. I just finished my first year, and I will start the second year. I go to university one or two days a week. Since I major in Islamic Study, I don't think I can find a job after graduation . I am not married and not engaged either. I have no work experience. My father is Mr. Refat, Manager of this unit. He didn't want me to come here because I need to study, but I insisted because this is the first experience in the village. This project is good because the work is easy and I learn many things. Also it is good I can go out of the house. I can go out only for weddings or something like that for our relatives.

Ms. A.M I am 27 years old, I finished junior high school. I became married 7 years ago. We have no children. I am from Mandosa, near Cairo. My husband is a good friend of my brother. They knew each other in Libya. My husband is sick and not working now. I was working at a public store in Mandosa from 15- 20 years old, when I graduated from junior high school. I don't know the wage now since I left there 7 years ago, but I was getting 250 L.E. / month and I was working 7 days a week. Life was easier before too. I had no job in this village. There is no work and no opportunity.

Ms. M.K I am 19 years old. I just graduated from middle school this year. This is my first job and I am not engaged yet. I came to know about this project because Mr. Refat is my neighbor. My father passed away 5 years ago, and I want to work. I have 5 brothers and sisters, and I am the eldest. My mother is not working and we have no income source. I am the only one working. My mother is getting a pension of 160 L.E./ month.

Ms. A.A I am 32 years old. I finished middle school in 1995. I married in 1998 and I had not worked at all from 1995 to 1998. We live alone in a separated house. My husband worked in Saudi Arabia and then Libya, but he did not go there this year because it is too dangerous. Now he is at home and works as a laborer only few days a month.

Ms. A.M I am 21 years old. I finished middle school in 2007. I am not married and not engaged yet. I have not worked before. My relative is working at the cooperative, so I came to know about this project. I like to work. My father passed away 16 years ago. I have 2 elder sisters and 2 younger brothers. and they got married when they were around 20.

Ms. S.A I am 24 years old. I finished middle school in 2005. I got married in 2005, but I came home in 2009. I got divorced in 2011. It took 2 years to follow the procedure. My cousin helps me. I have no children. I have no work experience

El Zawya Village, Assiut District, Assiut Governorate

Mr. G.E.A

I am 59 years old, the head of supervisors of the cooperative, I finished middle school (agriculture diplom) and I went to the Army for 6 years. Then I was assigned to Elwan, Assiut District for 2.5 years, then to Abghalop for 3 years, Doronka for 4 years, Rifa for 6 years, and came to El Zawya in 1992. I became the head of El Zawya in 1986.

El Kosya District, Assiut Governorate

Mr. O.M.A

I am 52 years old. I am working as a head of agriculture supervisors, I finished middle school and got agriculture diploma in 1977. Then I spent one year and eight months in the Army from 1979. I went to Iraq for 5 years from 1981 and worked at Governorate chicken farm there. I was assigned as a supervisor (for all crops) at Meer Village, El Kosya District at the end of 1985. Then at Habelsa Village, El Kosya District from 1988 to 1993. I went to Saudi Arabia from 1993 to 1994 as Governorate agriculture supervisor of flowers for pots. I was assigned at El Ansar Village in 1995, and became the head of supervisors in 2007.

Mr. A.F.A

I am one of the ten members of this 1 feddan demonstration farm. I have been working for the landowner for about 10 years. I work every day except Fridays but it's seasonal. This year (2011) I have been working since May, and I continue till November, until the tomato production finishes. Last year (2010), I worked from April to November. I take care of cattle and chicken here too.

Dayr Muas District, Minia Governorate

Ms. H.A.A

I have no work but I just help my mother in the kitchen. The only work I do is sorting chili from branches at home in November for one month. It is totally impossible for us to work in the field. I only attended Eliminating Illiteracy Program campaign. There is a campaign twice a year and it is 6 months long. We attend from 1PM to 4PM every day except Fridays and Saturdays. There were 11 girls, who are all friends. I still have difficulties in listening and writing, but I am comfortable with reading. *(Her brother went to university.).* Since our father already passed away, I ask my mother to go to a shop and buy *cloth*, not alone. If I can have a permanent job like this project, I save money and I want to start a sewing project for needy girls. There are many smart girls who are good at sewing. I ask a woman in another village to be a trainer. I would like to do a research of price and cost, and make it sure before starting the project. There are women doing sewing in this village, but they are all for traditional sewing. I would like to start modern sewing project here. When girls become 11 years old, they cannot go into the field. So we peal onions at home for companies.

Abo Haseeba, Matay District, Minia Governorate

Mr. A.A.M

I am 47 years old, I am working as a Cooperative's General Supervisor of Field Crops / butcher: I am an officer of Ministry of Agriculture, working at Abo Haseeba Cooperative, in charge of general supervision of field crops in Abo Haseeba and El Sheakh Hassam Villages. I finished faculty of Agriculture horticulture department.

Mr. R

Our family came from a village called Kom el Arab Village in the west part of Matay District in 1930's. . Our *eela* name is Arab Mohareb and is originally from Libya. I (Reda) usually work at a vegetable store in Libya for 8 months, and stay here and cultivate for 4 months from 2001. I didn't go to Libya only this year.

Abad Sharona, Maghagha District, Minia Governorate

Mr. S.A.W

I am 50 years old, I am working as an Agricultural Cooperative Head. I took agriculture diploma in 1987 and was assigned to Abad Sharona as an agriculture supervisor (Class 4). I was promoted to Class 3, four years later, and then to Class 2. I became the Head of Abad Sharona Agriculture Cooperative, which is Class 1, five years ago. I've had training on all kind of crops and horticulture, but my specialty is medical and aromatic plants. I went to Morocco in 2007 under GTZ program of medical plants. I was representing Minia Governorate and there were 12 officers from all over Egypt.

Mr. A.E.L

I am 21 years old, younger brother of Mr. Z (31): We use 7 women as pickers and 2 men only for loading a truck. Women are working for 4 hours from 5 AM to 9 AM and get paid 15 L.E./day. They work 4 times in 20 days, that means 60 L.E./20 days. Men are paid 20 L.E./day. Women are better as pickers because they can carry tomato on their heads where men on their sholders. It is easier for women when they work in narrow lines. Women are faster in picking also

Mr. M.T.E

I am 50 years old. My family originally came from Qena Governorate and my ancestor is the first family settled in this village 400 years ago. The name of my *eela* is Al Yassen Ella.

El Minia District, Minia Governorate

Mr. A.K.T

The largest kabela in the village is (1) El Gamala originally from Libya. There was a man called Gameel, who was Christian, 100 years ago in Libya, and that is why the kabela is called (1) El Gamala. His five or six sons escaped from Libya when Omar Mukhtar was fighting with Italy, and came to Egypt. There are about 50 to 60 eelas under (1) El Gamala, and each eela has 1 to 3 bait. A direct line from one of the sons of Gameel is the head of the kebela and he is also the head of the village. There are about 60 kabelas in the village and the major ones are like (2) El Gawaz from Libya, (3) El Fergam from Libya, (4) El Maaz from Saudi Arabia, (5) El Dorzy from Libya, (6) El Magarba from Morocco, (7) El Masharka from Saudi Arabia, (8) El Atrak from Turkey, (9) El Maged from Saudi Arabia, (10) Abo Keheel from Libya, etc. Out of 60 kabelas in the village, about 30 are from Libya, about 15 are from Saudi Arabia, ant the others are from Morocco, Turkey, Jordan, Iraq, Syria etc. There is (1) El Gamala kabele from Marsa Matroh Governorate to Aswan Governorate along the yellow (new or desert) land. (1) El Gamala kabele is in many districts in Minia Governorate such as El Minia, Mallawe, Maghagha, Bany Bazar, Abo Korkos etc. Those kabeles from Libya came together and they settled together from north to south along the yellow land because old land near the canal was already occupied by Egyptians. Since they looked foreigners, they could not join Army at first. They got Egyptian nationality after 5 years and they joined Army also. My kabela is Abo Zead El Halel, and my eela is Abo Zead. Abo Zead El Halel was from Saudi Arabia. When there are problems in the village, the head of eela and then the head of kabela mediate. If the problem is very serious like a murder, many heads of major kabela may meet and discuss. There are no regular meetings like that.

APPENDIX 4.5 Economic Analysis of the Development Projects

4.5.1 Targets of the Development Projects

The targets by each Project have been set by period. These targets are defined as the number of farmers to be trained, the number farmers' organization to establish agro-processing the number of agricultural cooperative for capacity development, and so on. The level of the targets has been set taking into consideration the capacity of the Governorate Agriculture Directorates, and the degree of difficulty according to the experience of the Pilot Project implementation.

The Project concerning the capacity development of the agricultural cooperative (expanding market channel) targets one cooperative per District, or 20 cooperatives of the two governorates in the short term period and 5 cooperatives per District in the mid-long period. The target of the Project for establishing agro-processing business has been set considering the difficulty that the farmers' organization has to prepare the fund for investment. The Projects at the stage of input / production (mainly demonstration farm activity) targets to establish 2 feddan of demo-farm per season (summer and winter: twice per year) per District. Following table summarizes the Project targets:

Table 4.5.1 Targets of the Development Projects

Development Tactics	Development Project	Short-term Target (1-5year)	Mid & Long-term Target(6-18year)
Market information to utilize for farming	Market information collection and dissemination	Putting up billboard at the 592 village cooperatives in the 2 governorates to send information	Establishing information center at the 2 governorate agriculture directorates and the 20 district agriculture offices
Expanding market channels	Expanding market channels, collection place, selling points	Reactivating 20 village cooperatives, facilitate 20 collection places, community markets and government direct shops	Reactivating 100 village cooperatives, facilitating 100 collection places and community markets, developing 6 multi-business agriculture cooperatives
Adding value to produce	Making brand of agriculture produce	Training 400 farmers in demo-farm of 200feddan	Training 4,000 farmers in demo-farm of 2,000feddan
	Agro-processing	Supporting 24 organizations for business establishment Creating job opportunity of 140 - 240 people	Supporting 72 organizations for business establishment + quality improvement Creating job opportunity of 420 – 720 people
Reducing post-harvest loss	Post-harvest facility	Constructing 1 facility (100 farmers per year to use it)	Constructing 6 facilities (600 farmers per year to use)
Improving quality of produce	Improving input distribution	Supplying vegetable seedlings to 4,000feddan (Assiut)	Supplying vegetable seedlings to 13,000feddan (Assiut)
Improving quality, harvesting in off-season, Promoting profitable crops	Improving input distribution, improving quality, off-season harvesting, promoting horticulture	Establishing 100 sites of demo-farms Training 2,000 farmers	Establishing 260 sites of demo-farms Training 5,200 farmers
Supporting activities by administration	Capacity development of farmers' organization, strengthening extension, improving access to finance	Training 136 extension workers, financial seminar at 290 village cooperatives	Training 598 village extension workers, financial seminar at the remaining cooperatives and 100 cooperatives to engage in financial services

4.5.2 Approximate Cost Estimate

Following Table 4.5.2 shows the major activities, targets and approximate project costs by each project. The contents of the projects have been categorized into the short term (the first 5 years from 2012 to 2017 assuming the starting year is 2013) and the mid & long term (13 years from 2018 to 2030, which is the target year of SADS 2030).

Table 4.5.2 Activities, Targets, and Approximate Cost Estimate of the Projects

Tactics		Project No.	Title	Short Term（1st to 5th Year：2013～2017） Major Activity	Target	App. Cost (LE)	Mid & Long Term（6th to 18th Year：2018～2030） Major Activity	Target	App. Cost (LE)	Total APP. Cost (LE)
1. Sales	Acquiring market information to utilize for farming and sales	1-1	Establishing Market Information System	Establish market information collection and dissemination system (combine with Mobile Extension Service of CAAE)	put up billboards and information dissemination in 342 cooperatives in Minia and 250 cooperatives in Assiut	288,400	Establish information center in the Governorate and each District Agriculture Office	Information center at 22 sites (GAD and 9 DAO in Minia, GAD and 11 DAO in Assiut)	1,342,000	1,630,400
	Expanding market channels	1-2	Supporting Small Scale Farmers to Expand Market Channels	Support marketing by village agr. cooperative (contract farming, loan provision to farmers, price stabilization fund etc., fund razing, collective shipping)	Revitalize 1 agr. cooperative per District (9 in Minia, 11 in Assiut)	482,000	Increase the No. of cooperative to participate in marketing	Revitalize 5 village cooperatives per District (45 in Minia, 55 in Assiut)	1,840,000	2,322,000
							Promote multi business cooperative (cooperative union)	Nurture 3 village cooperatives per Governorate to be multi business cooperative (union)	45,000	45,000
		1-3	Facilitating Collection Places in Villages	Construct collection place managed by cooperative	Construct 1 place per District (9 in Minia, 11 in Assiut)	1,400,000	Increase the No. of collection place	Construct 5 sites per District (45 in Minia, 55 in Assiut)	5,600,000	7,000,000
		1-4	Facilitating Selling Points (Community Markets, Government Direct Shops, etc.)	Construct community market(village road paving, or renovating coop. land), and improve direct shop of GAD, DAO	1 market per District (9 in Minia, 11 in Assiut), Renovate Governorate / District direct shop (10 in Minia, 11 in Assiut)	1,610,000	Increase the No. of community market	Construct 5 sites per District (45 in Minia, 55 in Assiut)	5,600,000	7,210,000
		1-5	Making Brand of Agricultural Produce (Utilizing	Improve distribution of bio-materials, demo-farm, making brand of "Clean Agro-produce" through direct shops	Demo-farm of bio-materials: 10fed/District (200fed) Train 400 farmers	3,000,000	GAP certification by the Governorate, Advertisement, develop large scale contract farming, expansion to New Land	Demo-farm of bio-materials: 100fed/District (2,000fed) Train 4,000 farmers	6,000,000	9,000,000
2. Post-harvest	Adding value to produce	2-1	Promoting Primary Agricultural Processing (adding value to produce)	Establish organization, facility for processing of produce in the village (pickles, dried vegetables, frozen vegetables etc.)	6 Districts 12 villages (12sites) to establish agro-processing units: create job of 70～120 people (Initial cost should be procured by the cooperative)	427,200	Upgrade quality of products Improve safety by HACCAP Increase the No. of processing unit	Introduce quality / hygiene control rule, HACCP Establish 12 sites/5years of agro-processing (total 36 sites): create job of 210人～360 people	1,281,600	1,708,800
		2-2	Promoting Processing Products (Converting Useless Crops to Useful)	Establish organization, facility for processing low grade produce to add value	6 Districts 12 villages (12sites) to establish agro-processing units: create job of 70～120 people (Initial cost should be procured by the cooperative)	427,200	Upgrade quality of products Improve safety by HACCP Increase the No. of processing unit	Introduce quality / hygiene control rule, HACCP Establish 12 sites/5years of agro-processing (total 36 sites): create job of 210人～360 people	1,281,600	1,708,800
	Reducing post-harvest loss	2-3	Establishing Post-harvest Facilities	Improve post-harvest processing of specialty crops (herbs e.g. basil), establish farmers' organization	Construct 1 site (100 farmers per year use facility)	1,260,200	Increase the No. of post-harvest facility Establish production and management	Construct 2 sites/5years (total 6 sites)：used by 600 farmers per year	3,780,600	5,040,800
3. Input / Production	Improving quality of produce	3-1	Improving Agricultural Input Distribution System	Establish certified seeds / seedling distribution system by GAD	Supply seedlings to 4,000feddan in Assiut (2nd to 5th Year)	800,000	Expand the system of certified seeds / seedlings production and supply	Supply seedlings to 13,000feddan in Assiut	1,300,000	2,100,000
				Introduce bio-control methods against pests	Total 100 demo-farms, train 2,000 farmers	3,400,000	Expand the production and supply system of bio-control materials	Total 260 demo-farms, train 5,200 farmers	6,000,000	9,400,000
				Demo-farm of certified seeds / seedlings Guide compost manure Guide pest control Introduce bio-control methods		3,470,000	Strengthen distribution system of fertilizers / pesticides Strengthen forecasting of pest occurrence and guidance to farmers		8,905,000	12,375,000
		3-2	Improving Quality of Agricultural Produce	Introduce quality improvement technologies Construct collection place(1-3)			Establish official quality standard of agr/ produce Strengthen input distribution system			
	Harvesting in off-season	3-3	Adjusting Cropping Pattern	Introduce cropping pattern to harvest in off-season Strengthen expanding green house horticulture			Establish year-round cropping pattern of certain crops			
	Promoting profitable crops	3-4	Promoting Horticultural Crop Production	Strengthen extension of horticulture based on demand Promote crop diversification			Establish stable supply system of agr. inputs Strengthen loan system for farming			
4. Administrative Support	To promote above tactics, assist in farmers' awareness creation, capacity development, cooperation, and access to finance	4-1	Supporting Capacity Development of Farmers' Organization	Support farmers' organization to implement above projects (guidance, training)	(Support above projects)	-	Support making multi business agricultural cooperative (above 1-2)	(Support above projects)	-	-
		4-2	Strengthening Agricultural Extension Services	Capacity development of extension workers to implement above projects Renovation of test equipments	Train total 136 extension workers (46 in Minia, 90 in Assiut)	1,815,000	Service provision by trained extension workers and strengthen farmer to farmer extension	Train village extension workers (344 in Minia, 216 in Assiut)	9,840,000	11,655,000
		4-3	Improving Agricultural Finance Accessibility	Information collection and dissemination of agricultural finance (seminar, workshop)	Information sharing in all the village cooperatives Holding seminar (170 and 120 cooperatives in Minia and Assiut)	652,300	Financial service according to the diversified needs of farmers and assist in establishing loan facility by agr. Cooperative or farmer group	Hold seminar in the rest of village cooperatives, 5 cooperatives per District, total 100 cooperatives (55 in Minia 45 in Assiut) will provide loan service like micro-finance.	1,594,000	2,246,300
					Approximate Project Cost Total (LE)	19,032,300			54,409,800	73,442,100
					Approximate Annual Project Cost (LE/year)	3,806,460			4,185,369	4,080,117
					Approximate Annual Project Cost in Minia (LE/year)	1,712,907			1,883,416	1,836,053
					Approximate Annual Project Cost in Assiut (LE/year)	2,093,553			2,301,953	2,244,064

As of June 2012 1LE = ¥13
1US$ = LE6

The approximate cost for implementing the projects is estimated at LE19 million for the short term period (5 years), or 1.7 million LE/year for Minia and 2 million LE/year for Assiut. As Assiut Governorate consists of 11 districts while Minia does 9 districts, the project cost for Assiut gets higher than Mnia. The project cost for the mid & long term period (13 years) is estimated at LE54.4 million, or 1.88 million LE/year for Minia and 2.3 million LE/year for Assiut.

The project costs include the one for capacity development such as personnel expenses, transportation, and equipments for trainings, inputs for demo-farms, and the construction of small-scale infrastructure. Investment cost for establishing agro-processing business is supposed to be borne by the business entity, i.e. farmer's organizations. As for the construction of post-harvest facility (drying facility of herbs), it is proposed to allocate public investment using public land.

4.5.3 The Benefits of the Development Projects

(1) Economic Benefits

Economic effects of the development projects were roughly analyzed. The economic analysis was carried out with financial price instead of economic price. The result of the analysis is shown in Table 4.5.2 below. Also calculation tables of IRR and NPV are shown from Table 4.5.4 to Table 4.5.7. In implementation, the projects under the development tactics of "Expanding market channels", namely "1-2 Expanding marketing channels", 1-3 Facilitating collection places", and "1-4 Facilitating selling points" will be combined with the project "1-5 Making brand of agricultural produce", which includes the improvement of crop production method and also the projects under the stage of input / production, namely "3-2 Quality improvement", 3-3 Harvesting in off-season", and "3-4 Promoting horticulture" in order to in order to increase the effectiveness of these projects. Therefore, the economic analysis was also carried out based on the combination of these projects.

IRR (Internal Rate of Return) of "1-5 Making brand of agricultural produce" and the combination of the projects under the input / production stage are high because the investment cost is relatively low, and the more farmer-to-farmer extension expands, the higher the economic efficiency will be. As for the projects of agro-processing and post-harvest processing facility, IRR are relatively low compared to the above ones as the initial investment cost for these projects are relatively high. However, the economic efficiencies of these projects are high enough should the business were successful.

NPV (Net Present Value) is to indicate the magnitude of the economic effects. The NPV of the projects under the input / production stage can increase by combining the development tactics of "Expanding market channels" as the number of beneficiary could increase. The project of "Making brand of agricultural produce" is to apply bio-fertilizers in order to reduce production cost and increase the value of sales by yield increase and value add to produce. Based on he results of the Pilot Project, relatively high increase of farm income and high NPV are expected.

On the agro-processing project, it will contribute to providing small scale farmers with the place to sell excessive produce, which cannot be sold at the wholesale market. Post-harvest facility to dry herbs would enable farmers to sell green basil at higher price should the agricultural cooperative considers the public benefits as the facility can make higher quality products. Also the establishment of these facilities can create job opportunities for local women and landless farmers.

Table 4.5.3 Economic Analysis of the Projects

Tactics		Project No.	Project Title	Assumption of the Economic Analysis	Economic Efficiency (Internal Rate of Return) (IRR)	Net Present Value (NPV) (Discount rate:10%)	Increase of Farm Income	Job Creation
1. Sales	Acquiring market information to utilize for farming and sales	1-1	Establishing Market Information System	It is difficult to apply economic analysis due to unknown investment and mechanism of profit generation by the private company for public- private partnership	–	–	For the Pilot Project, cost for SMS was around 5LE/month for one customer. Assumed that one farmer subscribed 4 months of SMS, which costs LE20 and the farmer was able to sell 10tons of tomato at 0.1LE/kg higher than the normal price on average by using SMS information, incremental income is calculated at LE1,000. How the farmer feels the contribution of SMS to their sales would be the indication of effects.	It is expected that the private company for partnership will open shops for selling mobile SIM card. By this job creation is expected.
	Expanding market channels	1-2	Supporting Small Scale Farmers to Expand Market Channels	The projects should be implemented together with the projects under the input / production below. Assumed that technology for quality improvement is displayed on 2 feddan-demo-farm per village. The extended area is assumed below but combining the project of expanding market channels, additional investment for revitalizing cooperative will be assumed to increase the extended area. In the village to implement revitalization of agr. cooperative, it is assumed that farmland of farmers who adopt the technology and join the marketing activity would reach 40 feddan in 12 years. In the end of Mid&Long term, 100 villages (2,333feddan) would be covered by the marketing activity.	Implement in combination with these projects and the projects under the input / production (3-1～3-4): 40%	LE16,151,992	The farm which adopted the introduced technology by the projects of input / production stage would get incremental income of 800LE/fed (40% increase). In the end of M/P, 1,360feddan (2,720 farm household assuming 0.5fed/household) will get benefit. In combination with the projects under the tactics of expanding market channels, total 3,693feddan (7,386farm households) would get benefit.	Creation of farm labor by horticulture promotion, off-season harvesting will be expected. Also for grading operation at the collection places, grading labor especially for women will be created.
		1-3	Facilitating Collection Places in Villages					
		1-4	Facilitating Selling Points (Community Markets, Government Direct Shops, etc.)	Based on the result of the Pilot Project, potato is picked up as representative crop and with application of bio-fertilizers it is assumed that 5% of production cost is reduced and 25% of yield or value addition is achieved. By this assumption, net benefit will be 3,300LE/fed. In the end of Mid&Long Term, Clean Agro-produce will be cultivated on 2,200feddan.	41%	LE21,122,444	As potato as representative crop, it is expected to increase farm income of 3,300LE/fed (about double). In the end of M/P, 2,200fed (4,400 households) would get benefit.	Creation of harvesting labor is expected by the increase of yield with the project.
	Adding value to produce	1-5	Making Brand of Agricultural Produce (Utilizing					
2. Post-harvest		2-1	Promoting Primary Agricultural Processing (adding value to produce)	The profitability of an agro-processing unit is analyzed. Cost items are investment cost, O&M cost and trainings by administration. Benefit is the profit by sales of products. Operation ratio of the unit; 10months ×20days, representative products: tomato paste and frozen vegetables In the end of Mid & Long term, 72 units will be established.	20% (estimated per site basis)	LE59,754 per site (for total target sites NPV regardless the starting year is calculated at LE4,302,288)	(annual benefit per agro-processing unit) Create market for farmers to supply raw materials: tomato 10t(5months ×20days×100kg) : LE11,000 vegetables 10t(-do-) : LE31,500 Total LE42,500/year/unit. 3,060,000LE/year for 72 units The profit of cooperative will be allocated to cooperative, to members, and officers to engage in the business according to Agr. Coop. Law	Job creation for workers at the unit: 6 -10 people (women) per unit, in Mid & Long term, job of 20 - 720 people can be created. Wage for women would around 200LE/month.
		2-2	Promoting Processing Products (Converting Useless Crops to Useful)					
	Reducing post-harvest loss	2-3	Establishing Post-harvest Facilities	Assumption: basil drying yard (1 site) construction with the area of 1 fed, 6 months operation, 300t of green basil is processed. Without Project: process yield: 8% by secondary process, unit price 3LE/kg With Project: process yield: 11%, unit price 5LE/kg With Project additional investment: drying yard, kafas for improved drying method, additional labor (3 times of Without Project), trainings In the end of Mid & Long term, 6 sits will be constructed.	16% (estimated per site basis)	LE198,470 per site (for total sites, NPV regardless the starting year is calculated at LE1,190,820)	As for the Pilot Project, the cooperative bought green basil at 0.3LE/kg from farmers. It was higher than average price of 0.25LEkg and hence increase of farm income is 20%. The profit ratio of the basil yard is 8.6% based on the Pilot Project and if half of this profit were returned to the farmers, farm-gate price would be 0.32LE/kg and income increase would be 30%. The cooperative should set certain level of profit and the surplus should be returned to the farmers by razing the farm-gate price, so that the benefit can be shared by the villagers. Assuming 300t processing per year and razing farm-gate price, Farm income increase of LE21,000/year/site would be realized. For total 6 sites in Mid & Long term, income increase would be LE126,000/year.	As per draying yard, drying operation labor will be created. 110 man-day/year of additional job is expected (Improved drying method would need 3 times of labor compared to traditional method). In Mid & Long term, 660 man-day/year of drying labor from 6 sites will be created. Also for operation of equipment by the cooperative, 3 to 8 people of the operation labor per site will be created.
	Improving quality of produce							
3. Input / Production		3-1	Improving Agricultural Input Distribution System	demo-farm is established every year 80feddan (33.6ha). On average, it is assumed that the introduced technology would be adopted on the same area of demo-farm. Therefore, every year the technology is extended on 80 feddan. It is assumed at the end of the Mid & Long term (18th year) that the technology is adopted on total 1,360 feddan and 80 feddan as demo-farm. As for benefit, increase of farm income on the demo-farm and technology adopted farm is estimated. Crop is not specified but general rate of the cost and benefit will be applied in estimation. It is assumed that the net benefit will be 2,000LE/fed on demo-farm and 800LE/fed on technology adopted farm.	Implement in combination with these projects and the above projects at the stage of selling (1-2 and 1-3): 40%	LE16,151,992	It is expected that the technology adopted farm from the demo-farm would get incremental income of 800LE/fed/crop (40% increase). In the end of M/P, 1,360feddan (2,720 households) would get benefit. It is estimated that in combination with the above projects under the tactics of expanding market channels the benefit would extend to 3,693feddan (7,386 households) in the end of M/P.	Creation of farm labor by horticulture promotion and off-season harvesting will be expected.
		3-2	Improving Quality of Agricultural Produce					
	Harvesting in off-season	3-3	Adjusting Cropping Pattern					
	Promoting profitable crops	3-4	Promoting Horticultural Crop Production					

(Note1) IRR and NPV are estimated using financial price instead of economic price.

Table 4.5.4 Estimation of IRR: Projects under the Tactics of Expanding Market Channels + Projects under the Stage of Input / Production

Year	Cost				Benefit			Net Benefit	CRF	Present Value	
	Demo-farm+inputs	Marketing channel	Collection point	Total	Production	Marketing	Total		I =10%	Cost	Benefit
1	1,130,000	48,200		1,178,200	800,000	0	800,000	-378,200	0.909090909	1,071,091	727,273
2	785,000	96,400		881,400	864,000	0	864,000	-17,400	0.826446281	728,430	714,050
3	785,000	144,600	282,000	1,211,600	928,000	32,000	960,000	-251,600	0.751314801	910,293	721,262
4	785,000	96,400	282,000	1,163,400	992,000	64,000	1,056,000	-107,400	0.683013455	794,618	721,262
5	785,000	96,400	376,000	1,257,400	1,056,000	128,000	1,184,000	-73,400	0.620921323	780,746	735,171
6	785,000	142,000	282,000	1,209,000	1,120,000	256,000	1,376,000	167,000	0.56447393	682,449	776,716
7	785,000	142,000	282,000	1,209,000	1,184,000	384,000	1,568,000	359,000	0.513158118	620,408	804,632
8	785,000	142,000	282,000	1,209,000	1,248,000	544,000	1,792,000	583,000	0.46650738	564,007	835,981
9	785,000	142,000	282,000	1,209,000	1,312,000	704,000	2,016,000	807,000	0.424097618	512,734	854,981
10	785,000	142,000	282,000	1,209,000	1,376,000	928,000	2,304,000	1,095,000	0.385543289	466,122	888,292
11	785,000	142,000	282,000	1,209,000	1,440,000	1,216,000	2,656,000	1,447,000	0.350493899	423,747	930,912
12	785,000	142,000	282,000	1,209,000	1,504,000	1,568,000	3,072,000	1,863,000	0.318630818	385,225	978,834
13	785,000	142,000	282,000	1,209,000	1,568,000	1,984,000	3,552,000	2,343,000	0.28966438	350,204	1,028,888
14	785,000	142,000	282,000	1,209,000	1,632,000	2,464,000	4,096,000	2,887,000	0.263331254	318,367	1,078,605
15	785,000	142,000	282,000	1,209,000	1,696,000	2,880,000	4,576,000	3,367,000	0.239392049	289,425	1,095,458
16	785,000	140,000	282,000	1,207,000	1,760,000	3,360,000	5,120,000	3,913,000	0.217629136	262,678	1,114,261
17	785,000	140,000	329,000	1,254,000	1,824,000	3,904,000	5,728,000	4,474,000	0.197844669	248,097	1,133,254
18	785,000	140,000	329,000	1,254,000	1,888,000	4,480,000	6,368,000	5,114,000	0.17985879	225,543	1,145,341
19				0	1,088,000	5,120,000	6,208,000	6,208,000	0.163507991	0	1,015,058
20				0	1,088,000	5,632,000	6,720,000	6,720,000	0.148643628	0	998,885
21				0	1,088,000	6,144,000	7,232,000	7,232,000	0.135130571	0	977,264
22				0	1,088,000	6,528,000	7,616,000	7,616,000	0.122845974	0	935,595
23				0	1,088,000	6,912,000	8,000,000	8,000,000	0.111678158	0	893,425
24				0	1,088,000	7,168,000	8,256,000	8,256,000	0.101525598	0	838,195
25				0	1,088,000	7,424,000	8,512,000	8,512,000	0.092295998	0	785,624
26				0	1,088,000	7,552,000	8,640,000	8,640,000	0.083905453	0	724,943
27				0	1,088,000	7,680,000	8,768,000	8,768,000	0.076277684	0	668,803
28				0	1,088,000	7,680,000	8,768,000	8,768,000	0.069343349	0	608,002
29				0	1,088,000	7,680,000	8,768,000	8,768,000	0.063039409	0	552,730
30				0	1,088,000	7,680,000	8,768,000	8,768,000	0.057308553	0	502,481
							IRR	40%	**Total**	9,634,185	25,786,177
									NPV		16,151,992

Combined Projects:

1-2	Supporting Small Scale Farmers to Expand Market Channels
1-3	Facilitating Collection Places in Villages
3-1	Improving Agricultural Input Distribution System
3-2	Improving Quality of Agricultural Produce
3-3	Adjusting Cropping Pattern
3-4	Promoting Horticultural Crop Production

Assumption:

Benefit of Demo-farm (80fed/year)*18 years		
Gross output (LE/fed)	12,000	
Net Output (without P) (LE/fed)	2,000	
Incrementtal Benefit (With P)(LE/fed)	10,000	
Benefit of Extended Farm (80fed/year)*18 years		
Pruduction cost (LE/fed)	8,000	
Gross output (LE/fed)	10,800	
Net Output (without P) (LE/fed)	2,000	
Incrementtal Benefit (With P)(LE/fed)	800	

Extension of benefitted area by the Projects under Expanding Market Channels
20 feddan in 12 years x 100 villages in Mid and Long Term

Table 4.5.5 Estimation of IRR: Projects for Making Brand of Agriculture Produce + Facilitating Selling Points

Year	Cost				Benefit		Net Benefit	CRF	Present Value	
	Demo-farm+inputs	Direct shops		Total	Production + Marketing	Total		I =10%	Cost	Benefit
1	1,000,000			1,000,000	132,000	132,000	-868,000	0.909090909	909,091	120,000
2	500,000	50,000		550,000	264,000	264,000	-286,000	0.826446281	454,545	218,182
3	500,000	50,000		550,000	396,000	396,000	-154,000	0.751314801	413,223	297,521
4	500,000	50,000		550,000	528,000	528,000	-22,000	0.683013455	375,657	360,631
5	500,000	50,000		550,000	660,000	660,000	110,000	0.620921323	341,507	409,808
6	600,000			600,000	1,155,000	1,155,000	555,000	0.56447393	338,684	651,967
7	450,000			450,000	1,650,000	1,650,000	1,200,000	0.513158118	230,921	846,711
8	450,000			450,000	2,145,000	2,145,000	1,695,000	0.46650738	209,928	1,000,658
9	450,000			450,000	2,640,000	2,640,000	2,190,000	0.424097618	190,844	1,119,618
10	450,000			450,000	3,135,000	3,135,000	2,685,000	0.385543289	173,494	1,208,678
11	450,000			450,000	3,630,000	3,630,000	3,180,000	0.350493899	157,722	1,272,293
12	450,000			450,000	4,125,000	4,125,000	3,675,000	0.318630818	143,384	1,314,352
13	450,000			450,000	4,620,000	4,620,000	4,170,000	0.28966438	130,349	1,338,249
14	450,000			450,000	5,115,000	5,115,000	4,665,000	0.263331254	118,499	1,346,939
15	450,000			450,000	5,610,000	5,610,000	5,160,000	0.239392049	107,726	1,342,989
16	450,000			450,000	6,105,000	6,105,000	5,655,000	0.217629136	97,933	1,328,626
17	450,000			450,000	6,600,000	6,600,000	6,150,000	0.197844669	89,030	1,305,775
18	450,000			450,000	7,260,000	7,260,000	6,810,000	0.17985879	80,936	1,305,775
19				0	7,260,000	7,260,000	7,260,000	0.163507991	0	1,187,068
20				0	7,260,000	7,260,000	7,260,000	0.148643628	0	1,079,153
21				0	7,260,000	7,260,000	7,260,000	0.135130571	0	981,048
22				0	7,260,000	7,260,000	7,260,000	0.122845974	0	891,862
23				0	7,260,000	7,260,000	7,260,000	0.111678158	0	810,783
24				0	7,260,000	7,260,000	7,260,000	0.101525598	0	737,076
25				0	7,260,000	7,260,000	7,260,000	0.092295998	0	670,069
26				0	7,260,000	7,260,000	7,260,000	0.083905453	0	609,154
27				0	7,260,000	7,260,000	7,260,000	0.076277684	0	553,776
28				0	7,260,000	7,260,000	7,260,000	0.069343349	0	503,433
29				0	7,260,000	7,260,000	7,260,000	0.063039409	0	457,666
30				0	7,260,000	7,260,000	7,260,000	0.057308553	0	416,060
						IRR	41%	**Total**	4,563,476	25,685,920
								NPV		21,122,444

Combined Projects:

1-4	Facilitating Selling Points (Community Markets, Government Direct Shops, etc.)
1-5	Making Brand of Agricultural Produce (Bio-fertilizers Application)

Assumption:

Potato (representative)	Without Project	With Project	Increment
Unit Price (LE/kg)	1.30	1.30	
Yield (t/feddan)	9.00	11.25	
Gross Income (LE/feddan)	11,700	14,625	+25%
Production Cost (LE/feddan)	8,400	7,980	-5%
Net Income (LE/feddan)	3,300	6,645	3,345

2,200 feddan in Mid & Long Term

Table 4.5.6 Estimation of IRR: Projects for Agro-processing

Year	Cost						Benefit		Net Benefit	CRF	Present Value	
	Room finishing	Equipment	Training etc.	O&M	Selling point	Total	G. Income	Total		I =10%	Cost	Benefit
1	35,000	35,000	19,600	30,000		119,600	40,000	40,000	-79,600	0.909090909	108,727	36,364
2				45,000	10,000	55,000	60,000	60,000	5,000	0.826446281	45,455	49,587
3				60,000		60,000	80,000	80,000	20,000	0.751314801	45,079	60,105
4				60,000		60,000	80,000	80,000	20,000	0.683013455	40,981	54,641
5				60,000		60,000	80,000	80,000	20,000	0.620921323	37,255	49,674
6				60,000		60,000	80,000	80,000	20,000	0.56447393	33,868	45,158
7				60,000		60,000	80,000	80,000	20,000	0.513158118	30,789	41,053
8				60,000		60,000	80,000	80,000	20,000	0.46650738	27,990	37,321
9				60,000		60,000	80,000	80,000	20,000	0.424097618	25,446	33,928
10				60,000		60,000	80,000	80,000	20,000	0.385543289	23,133	30,843
11		35,000		60,000		95,000	80,000	80,000	-15,000	0.350493899	33,297	28,040
12				60,000		60,000	80,000	80,000	20,000	0.318630818	19,118	25,490
13				60,000		60,000	80,000	80,000	20,000	0.28966438	17,380	23,173
14				60,000		60,000	80,000	80,000	20,000	0.263331254	15,800	21,067
15				60,000		60,000	80,000	80,000	20,000	0.239392049	14,364	19,151
16	35,000			60,000		95,000	80,000	80,000	-15,000	0.217629136	20,675	17,410
17				60,000		60,000	80,000	80,000	20,000	0.197844669	11,871	15,828
18				60,000		60,000	80,000	80,000	20,000	0.17985879	10,792	14,389
19				60,000		60,000	80,000	80,000	20,000	0.163507991	9,810	13,081
20				60,000		60,000	80,000	80,000	20,000	0.148643628	8,919	11,891
21		35,000		60,000		95,000	80,000	80,000	-15,000	0.135130571	12,837	10,810
22				60,000	10,000	70,000	80,000	80,000	10,000	0.122845974	8,599	9,828
23				60,000		60,000	80,000	80,000	20,000	0.111678158	6,701	8,934
24				60,000		60,000	80,000	80,000	20,000	0.101525598	6,092	8,122
25				60,000		60,000	80,000	80,000	20,000	0.092295998	5,538	7,384
26				60,000		60,000	80,000	80,000	20,000	0.083905453	5,034	6,712
27				60,000		60,000	80,000	80,000	20,000	0.076277684	4,577	6,102
28				60,000		60,000	80,000	80,000	20,000	0.069343349	4,161	5,547
29				60,000		60,000	80,000	80,000	20,000	0.063039409	3,782	5,043
30				60,000		60,000	80,000	80,000	20,000	0.057308553	3,439	4,585
								IRR	**20%**	**Total**	641,507	701,261
										NPV		59,754

Project for Analysis:

2-1	Promoting Primary Agricultural Processing (Adding Value to Produce)
2-2	Promoting Processing Products (Converting Useless Crops to Useful)

Assumption:

Products	Operation		Cost		G. Income	
Tomato paste	5	months(x20days)	210	LE/day	240	LE/day
Frozen veg.	5	months(x20days)	390	LE/day	560	LE/day

Table 4.5.7 Estimation of IRR: Projects for Post-harvest Facility

Year	Cost						Benefit		Net Benefit	CRF	Present Value	
	Dry yard	Equipment	Kafas	Training etc	O&M	Total	Incremental Income	Total		I =10%	Cost	Benefit
1	500,000		20,000	18,100	14,672	552,772	93,000	93,000	-459,772	0.909090909	502,520	84,545
2					14,672	14,672	93,000	93,000	78,328	0.826446281	12,126	76,860
3					14,672	14,672	93,000	93,000	78,328	0.751314801	11,023	69,872
4			20,000		14,672	34,672	93,000	93,000	58,328	0.683013455	23,681	63,520
5					14,672	14,672	93,000	93,000	78,328	0.620921323	9,110	57,746
6					14,672	14,672	93,000	93,000	78,328	0.56447393	8,282	52,496
7			20,000		14,672	34,672	93,000	93,000	58,328	0.513158118	17,792	47,724
8					14,672	14,672	93,000	93,000	78,328	0.46650738	6,845	43,385
9					14,672	14,672	93,000	93,000	78,328	0.424097618	6,222	39,441
10			20,000		14,672	34,672	93,000	93,000	58,328	0.385543289	13,368	35,856
11					14,672	14,672	93,000	93,000	78,328	0.350493899	5,142	32,596
12					14,672	14,672	93,000	93,000	78,328	0.318630818	4,675	29,633
13			20,000		14,672	34,672	93,000	93,000	58,328	0.28966438	10,043	26,939
14					14,672	14,672	93,000	93,000	78,328	0.263331254	3,864	24,490
15					14,672	14,672	93,000	93,000	78,328	0.239392049	3,512	22,263
16			20,000		14,672	34,672	93,000	93,000	58,328	0.217629136	7,546	20,240
17					14,672	14,672	93,000	93,000	78,328	0.197844669	2,903	18,400
18					14,672	14,672	93,000	93,000	78,328	0.17985879	2,639	16,727
19			20,000		14,672	34,672	93,000	93,000	58,328	0.163507991	5,669	15,206
20					14,672	14,672	93,000	93,000	78,328	0.148643628	2,181	13,824
21					14,672	14,672	93,000	93,000	78,328	0.135130571	1,983	12,567
22			20,000		14,672	34,672	93,000	93,000	58,328	0.122845974	4,259	11,425
23					14,672	14,672	93,000	93,000	78,328	0.111678158	1,639	10,386
24					14,672	14,672	93,000	93,000	78,328	0.101525598	1,490	9,442
25			20,000		14,672	34,672	93,000	93,000	58,328	0.092295998	3,200	8,584
26					14,672	14,672	93,000	93,000	78,328	0.083905453	1,231	7,803
27					14,672	14,672	93,000	93,000	78,328	0.076277684	1,119	7,094
28			20,000		14,672	34,672	93,000	93,000	58,328	0.069343349	2,404	6,449
29					14,672	14,672	93,000	93,000	78,328	0.063039409	925	5,863
30					14,672	14,672	93,000	93,000	78,328	0.057308553	841	5,330
								IRR	**16%**	**Total**	678,234	876,703
										NPV		198,470

Project for Analysis: 2-3 Establishing Post-harvest Facilities

Assumption:

Item	Without Project	With Project	Increment
Green Basil (kg)	300,000	300,000	
Primarily Procesed	8%	11%	
Processed basil(kg)	24,000	33,000	
Price(LE/kg)	3.0	5.0	
Increment(LE/year)	72,000	165,000	93,000
Additional Labor(LE/year)		14,672	

(2) Other Development Benefits

As above, it is expected that the economic benefits will be brought about by the implementation of the projects in this M/P, such increase of income of farmers and creation of job opportunity along with the economic efficiency and effects. In addition to them, following development effects are expected to come out:

- Expanding social participation of women by creating job opportunity for them: in rural Upper Egypt, the activities of women are restricted, e.g. farm labor, employment outside the village, etc. Establishing agro-processing units within the village proposed in this M/P can create the job opportunity for women. That would contribute not only to generating income for women but also providing them with the opportunity to participate in economic activity.
- Utilization of Resources and Increasing Safety of Food: The projects of making brand of agricultural produce and quality improvement proposed in this M/P include the application of bio-fertilizers, production improvement with less use of pesticides, i.e. the projects contributes to utilizing the natural resources (organic materials) in the area and improving the living standard of the people by increasing healthy and safe agricultural production.
- Contribution to food security: The main challenge of this M/P is to increase the profitability of land. In recent years, the transfer of farmland to non-farmland has been progressing in the Old Land. Increasing profitability of farmland would contribute to maintaining the farmland, i.e. foundation of agricultural production, thereby contributing to national food security.
- Revitalization of agricultural cooperatives – utilizing the assets of the village to activate rural economy: agricultural cooperatives, a representative farmers' organization in rural area, could activate rural economy by utilizing their human resource and economic assets. Revitalization of the agricultural cooperative is one of the major components of this M/P.
- Narrowing regional economic disparity with poverty reduction: Upper Egypt is the region with the highest poverty ratio in the country, so the poverty reduction in this region to narrow the regional economic disparity is a pressing issue. The development of agricultural sector, which is a major industry in Upper Egypt, will contribute to tackling the issue and hence bringing a stability of the nation.

APPENDIX 4.6 List of Village Agriculture Cooperative

List of Village Agriculture Cooperative in Minia (As of 2009/10l) (Source: Minia Governorate Agriculture Directorate)

District	No.	Village Cooperative	No. of Members	Land (fed)							Capital (2009/10)
				Assuarance			Assuarance	Reform	Agencies	Total	
				Cultivated	Public	Total					
El Edwa	1	El Azhary	398	180	36	216	216			216	
	2	El Bahgor	302	801	171	972	972	61		1,033	
	3	El Sheakh Saad	349	1,542	506	2,048	2,048	557	0	2,605	
	4	Edwa	560	1,599	573	2,172	2,172	0	4	2,176	
	5	Aklia	482	584	96	680	680	88		768	
	6	Al Kayat	486	1,186	353	1,539	1,539	965		2,504	
	7	Al Masead	860	1,079	164	1,243	1,243	166		1,409	
	8	Ban El Alaam	840	1,236	107	1,343	1,343	55		1,398	
	9	Brmasha	832	1,772	263	2,035	2,035	223	0	2,258	
	10	Baskalon	650	1,314	333	1,647	1,647	769		2,416	
	11	Bani Amer	384	741	99	840	840	6		846	
	12	Bani Werkan	594	1,012	190	1,202	1,202	53		1,255	
	13	Zawiat Berka	456	1,122	986	2,108	2,108	139		2,247	
	14	Salakous	1,070	1,525	261	1,786	1,786	8	0	1,794	
	15	Safania	785	1,423	433	1,856	1,856	467		2,323	
	16	Atfet Hedar	760	1,454	383	1,837	1,837	34		1,871	
	17	Kafr El Maghrabi	150	179	264	443	443	26		469	
	18	Kafr Abd El Khalik	275	477	64	541	541	259		800	
	19	Kafr Mahdi	495	422	62	484	484	7		491	
	20	Mafoz Tesba	81	95	19	114	114	12		126	
	21	Mnshaat El Sawi	356	1,060	187	1,247	1,247	0		1,247	
	22	Mnshaat Halfa	200	434	1,201	1,635	1,635	11		1,646	
	23	Mnshaat Abd Alla	403	409	35	444	444	365		809	
	24	Nazlet ramadan	409	798	39	837	837	0		837	
		Sub-total	12,177	22,444	6,825	29,269	29,269	4,271	4	33,544	
Beni Mazar	63	Nazlet Sheha	115	121	29	150	150	0		150	1,082
	64	Abshak	1,850	1,740	232	1,972	1,972	190	0	2,162	5,812
	65	Abtoga	705	1,041	54	1,095	1,095	94	0	1,189	6,737
	66	Abo El Abas	664	841	226	1,067	1,067	41	0	1,108	8,656
	67	Abo Gorg	2,200	2,679	751	3,430	3,430	523	0	3,953	9,191
	68	Ashropa	1,460	2,461	388	2,849	2,849	366	0	3,215	9,676
	69	Aato	966	1,502	120	1,622	1,622	484	0	2,106	5,589
	70	El Bahnasa	1,460	1,570	1,479	3,049	3,049	0	0	3,049	9,479
	71	Garnos	2,000	3,439	644	4,083	4,083	0	0	4,083	17,958
	72	Gndia	1,130	1,097	527	1,624	1,624	1,107	0	2,731	10,110
	73	Hosnia	1,000	937	459	1,396	1,396	112	21	1,529	3,906
	74	El Dalil	333	215	87	302	302	44	0	346	10,533
	75	El Soodia	425	327	27	354	354	0	0	354	1,868
	76	Salam	282	266	235	501	501	0		501	1,494
	77	Senaria	650	757	44	801	801	57	0	858	4,857
	78	El Shekh Ata	660	781	78	859	859	11	0	870	4,573
	79	El Shekh Fadil	1,812	1,562	409	1,971	1,971	300	0	2,271	7,862
	80	Al Keas	1,350	1,450	363	1,813	1,813	113	0	1,926	10,007
	81	Mawada	312	356	112	468	468	30	0	498	2,549
	82	Nasria	1,200	2,025	538	2,563	2,563	347	0	2,910	2,955
	83	Om El Sayas	717	833	33	866	866	101	0	967	3,310
	84	Bardona El Ashraf	900	1,045	141	1,186	1,186	101	0	1,287	8,422
	85	Balah El Mostagda	192	293	130	423	423	172	0	595	831
	86	Bani Samet	1,200	1,629	1,235	2,864	2,864	1,033	0	3,897	7,685
	87	Bani Ali	1,200	1,512	153	1,665	1,665	96	0	1,761	6,011
	88	Bani Mazar	500	960	615	1,575	1,575	180	6	1,761	6,362
	89	Dear El Sonkoria	850	1,343	107	1,450	1,450	155	0	1,605	3,661
	90	Sakolla	788	752	166	918	918	4	0	922	5,206
	91	Shlkam	1,045	1,717	366	2,083	2,083	359	0	2,442	7,821
	92	Saft Abo Gorg	1,409	1,906	271	2,177	2,177	398	0	2,575	8,494
	93	Sendfa	1,187	1,394	133	1,527	1,527	85	0	1,612	3,938
	94	Tampo	625	945	132	1,077	1,077	5	0	1,082	7,656
	95	Kafr Abo El Eyoon	566	637	46	683	683	296	0	979	3,851
	96	Kafr El Shekh Ibrahiam	695	639	314	953	953	112	0	1,065	5,983
	97	Mnshaat Abo Azez	409	390	48	438	438	1	0	439	2,855
	98	Mnshaat El Kes	476	505	33	538	538	176	0	714	6,795
	99	Mnshaat El Yousfe	995	1,233	126	1,359	1,359	2	0	1,361	2,414
	100	Mnshaat Beker	265	183	32	215	215	0	0	215	2,207
	101	Mnshaat Galal	727	915	72	987	987	176	0	1,163	1,253
	102	Mnshaat Hgag	1,090	1,386	186	1,572	1,572	229	0	1,801	6,469
	103	Nazlit Galf	327	375	38	413	413	178	0	591	2,109
	104	Nazlit Amro	600	598	189	787	787	80	0	867	3,652
		Sub-total	37,337	46,357	11,368	57,725	57,725	7,758	27	65,510	241,879

District	No.	Village Cooperative	No. of Members	Land (fed)							Capital
				Assuarance			Assuarance	Reform	Agencies	Total	
				Cultivated	Public	Total					
Magagha	25	Aba El Wakf	1,445	2,305	352	2,657	2,657	1,012		3,669	21,652
	26	Abo Bisht	540	657	95	752	752	8	0	760	3,275
	27	Ahmad younis	240	342	74	416	416	385		801	1,229
	28	Ashnen	700	889	189	1,078	1,078	418		1,496	3,181
	29	Atnia	362	274	73	347	347	0	0	347	703
	30	El Balaazetean	130	141	33	174	174	5		179	447
	31	El Tahrer	205	721	520	1,241	1,241	12		1,253	2,345
	32	El Zawra	175	150	39	189	189	0		189	540
	33	El Sheakh Zyyad	1,020	1,841	382	2,223	2,223	910	8	3,141	8,066
	34	El Koam El Akhdar	415	439	48	487	487	17		504	3,830
	35	Awlad El Sheakh	315	600	192	792	792	0		792	1,168
	36	Brtabat	800	1,534	483	2,017	2,017	58		2,075	152
	37	Blhasa	900	1,278	92	1,370	1,370	184		1,554	2,490
	38	Bndr maghagha	445	1,091	859	1,950	1,950	405		2,355	4,467
	39	Bani Khalid	800	848	32	880	880	0		880	3,416
	40	Bani Khalaf	195	239	126	365	365	515		880	895
	41	Bani Willms	630	774	88	862	862	0		862	8,397
	42	Gezerit Sharona	935	1,751	862	2,613	2,613	0		2,613	2,377
	43	Hameda El Gandi	260	172	14	186	186	0		186	1,100
	44	Dahro	830	1,030	107	1,137	1,137	4		1,141	2,776
	45	Dahrot	680	681	61	742	742	213		955	3,354
	46	Dear El Garnous	490	603	64	667	667	0		667	1,841
	47	Zawiat El Godami	500	1,510	1,216	2,726	2,726	616		3,342	1,265
	48	Sharona	935	1,806	575	2,381	2,381	335		2,716	5,997
	49	Sham El Baharia	590	728	92	820	820	0		820	4,470
	50	Sham El Keblia	805	982	78	1,060	1,060	225		1,285	2,792
	51	Tanbadi	1,080	1,667	49	1,716	1,716	1,525		3,241	5,594
	52	Abad Sharona	830	1,089	356	1,445	1,445	467		1,912	8,830
	53	Kafada	740	1,006	55	1,061	1,061	232		1,293	5,878
	54	Kafr El Salehean	555	851	107	958	958	105		1,063	4,967
	55	Kafr El Madawer	210	246	67	313	313	5		318	1,267
	56	Koam El Hasil	315	315	65	380	380	9		389	999
	57	Malatia	1,380	1,989	369	2,358	2,358	489		2,847	8,575
	58	Mnshaat Neazy	395	807	26	833	833	410		1,243	1,539
	59	Miana El Waakf	990	1,413	175	1,588	1,588	466		2,054	9,497
	60	Nazlit Blhasa	425	290	42	332	332	9		341	2,860
	61	Nazlit Bani Khalaf	415	514	61	575	575	0		575	1,170
	62	Nazlit Dahrout	350	234	231	465	465	739		1,204	1,423
		Sub-total	23,027	33,807	8,349	42,156	42,156	9,778	8	51,942	144,824
Matai	105	Abgag El Hatab	708	1,142	3,217	4,359	4,359	1,301	0	5,660	
	106	Abo Haseeba	589	449	83	532	532	501	0	1,033	
	107	Abo Shehata	1,218	1,335	390	1,725	1,725	81	0	1,806	
	108	Abwan	1,489	2,227	294	2,521	2,521	389		2,910	
	109	Abo Azez	854	1,101	418	1,519	1,519	0	0	1,519	
	110	Adkak El Mesk	1,140	1,211	168	1,379	1,379	0	0	1,379	
	111	Al Talat	987	880	74	954	954	11	0	965	
	112	Roda	523	583	90	673	673	21	0	694	
	113	El Shekh Hassan	365	455	571	1,026	1,026	81	0	1,107	
	114	Kafour	615	457	157	614	614	50	0	664	
	115	Kawadi	424	406	36	442	442	91	0	533	
	116	Awlad El Shekh Hassan	480	495	59	554	554	26	0	580	
	117	Bardonoha	2,187	2,501	271	2,772	2,772	124	0	2,896	
	118	Bani Amar	271	408	50	458	458	124	0	582	
	119	Gewada	543	672	73	745	745	26	0	771	
	120	Helwa	984	1,479	289	1,768	1,768	412	0	2,180	
	121	Sella El Sharkia	494	656	88	744	744	30	0	774	
	122	Sella El Gharbia	1,195	1,158	95	1,253	1,253	78	0	1,331	
	123	Koam Matay	427	332	67	399	399	22	0	421	
	124	Koam Wally	307	572	41	613	613	4	0	617	
	125	Marzok	818	1,052	129	1,181	1,181	20	0	1,201	
	126	Matai El Balad	1,022	1,751	544	2,295	2,295	33	0	2,328	
	127	Minbal	1,860	2,042	255	2,297	2,297	0	0	2,297	
	128	Mnshaat Minbal	708	641	130	771	771	2	0	773	
	129	Nazlit Thabit	400	323	65	388	388	3,597		3,985	
	130	Hawara	260	353	41	394	394	137	0	531	
		Sub-total	20,868	24,681	7,695	32,376	32,376	7,161	0	39,537	

List of Village Agriculture Cooperative in Minia (As of 2009/10l) (Source: Minia Governorate Agriculture Directorate)

District	No.	Village Cooperative	No. of Members	Land (fed)							Capital (2009/10)
				Assuarance			Assuarance	Reform	Agencies	Total	
				Cultivated	Public	Total					
Samallout	131	Ibrahiam Basha	430	502	60	562	562	34	0	596	
	132	Abo Sedhom	700	804	169	973	973	95	0	1,068	
	133	Astal	950	986	35	1,021	1,021	25	0	1,046	
	134	Etsa	1,148	973	605	1,578	1,578	723	0	2,301	
	135	El Bayaho	900	1,777	565	2,342	2,342	1,557	0	3,899	
	136	Tawfikia	1,070	1,329	252	1,581	1,581	13	0	1,594	
	137	Gazaaer	1,413	1,663	256	1,919	1,919	0	0	1,919	
	138	Galaa	346	413	34	447	447	73	0	520	
	139	Hatahta	634	575	94	669	669	47	0	716	
	140	Hilmia	874	1,069	144	1,213	1,213	0	0	1,213	
	141	Khamisha	521	539	60	599	599	382		981	
	142	(Robi (koam El Raheb	1,075	2,075	1,350	3,425	3,425	54	0	3,479	
	143	Roda Mostagada	644	543	20	563	563	35	0	598	
	144	Sararia	322	644	467	1,111	1,111	25	0	1,136	
	145	Sharatia	222	244	179	423	423	0	0	423	
	146	El Sheakh Abd Alla	585	747	57	804	804	4	0	808	
	147	El Taiba	1,900	2,873	1,012	3,885	3,885	131	0	4,016	
	148	El Amodean	970	865	213	1,078	1,078	31	0	1,109	
	149	Awisa	670	567	32	599	599	0	0	599	
	150	Gharabawi	405	330	34	364	364	76	0	440	
	151	Kotosha	509	545	57	602	602	0	0	602	
	152	Kamader	565	691	225	916	916	0	0	916	
	153	Bani Hakam	485	669	87	756	756	0	0	756	
	154	Bani Samrag	710	1,602	2,658	4,260	4,260	92	0	4,352	
	155	Bani Ghani	2,150	2,577	257	2,834	2,834	55	0	2,889	
	156	Boga	660	827	87	914	914	0	0	914	
	157	Gabal El Tear	395	797	268	1,065	1,065	63	0	1,128	
	158	Hassan Basha	668	861	101	962	962	84	0	1,046	
	159	Dakouf	1,735	2,069	364	2,433	2,433	127	0	2,560	
	160	Dafash	584	1,040	91	1,131	1,131			1,131	
	161	Dlkam Shark	805	926	230	1,156	1,156	25	0	1,181	
	162	Dlkam Gharb (El Eteafe)	840	1,265	203	1,468	1,468	41	0	1,509	
	163	Dear Samalout	791	988	171	1,159	1,159	103	0	1,262	
	164	Sakiat Dakouf	780	1,253	982	2,235	2,235	28	0	2,263	
	165	Samalout	2,717	3,397	1,202	4,599	4,599	292	33	4,924	
	166	Shosha	1,050	2,223	424	2,647	2,647	111	0	2,758	
	167	Taha El Omda	1,005	1,097	292	1,389	1,389	7	0	1,396	
	168	Tarfa	1,430	1,665	3,441	5,106	5,106	69	0	5,175	
	169	Azbit El Kamader	1,170	2,495	1,885	4,380	4,380	181	0	4,561	
	170	Azbit Dawod Basha	686	1,071	983	2,054	2,054	4	0	2,058	
	171	Kolosna	2,005	2,673	610	3,283	3,283	308	0	3,591	
	172	Koam El Lofe	520	541	106	647	647	80	0	727	
	173	Maasarit Samalout	627	473	212	685	685	35	0	720	
	174	Mnshaat El Shereaai				0				0	
	175	Mnshaat Badeny	305	353	28	381	381	6	0	387	
	176	Mnkaten	1,820	2,320	443	2,763	2,763	165	0	2,928	
	177	Nazlit Taha	1,070	1,413	156	1,569	1,569	37	0	1,606	
	178	Nazlit Shadi	475	1,075	789	1,864	1,864	0	0	1,864	
		Sub-total	42,336	56,424	21,990	78,414	78,414	5,218	33	83,665	
Abo Korkas	221	Abo El Safa	400	597	19	616	616	0	0	616	
	222	Abo Korkas El Balad	2,073	1,613	504	2,117	2,117	3	0	2,120	
	223	Abuoha	1,650	1,667	198	1,865	1,865	167	0	2,032	
	224	Atledam	2,250	2,339	424	2,763	2,763	120	0	2,883	
	225	Asmant	713	926	1,126	2,052	2,052	449	0	2,501	
	226	Barba	1,270	1,420	195	1,615	1,615	33	0	1,648	
	227	Hassania	436	733	67	800	800	0	0	800	
	228	Sahala	500	405	36	441	441	140	0	581	
	229	El Seroo	520	524	57	581	581	26	0	607	
	230	Soultan Hassan	600	758	747	1,505	1,505	13	0	1,518	
	231	El Senblawean	608	207	109	316	316	299	0	615	
	232	El Shekh Tame	1,400	1,713	481	2,194	2,194	0	0	2,194	
	233	Fokaay	815	830	96	926	926	57	0	983	
	234	Fkria	1,090	1,463	405	1,868	1,868	552	35	2,455	
	235	Karm	1,524	1,365	549	1,914	1,914	97	0	2,011	
	236	Matahra	1,100	285	284	569	569	309	0	878	
	237	Nahal	391	414	29	443	443	9	0	452	
	238	Balansora	1,900	2,100	755	2,855	2,855	55	0	2,910	
	239	Bani Hassan El Sherook	1,117	913	303	1,216	1,216	7	0	1,223	
	240	Bani Khiar	1,144	1,097	175	1,272	1,272	141	0	1,413	
	241	Bani Saaead	295	399	37	436	436	128	0	564	
	242	Bani Ebad Shark	2,065								
	243	Bani Ebad Gharb	890	3,631	418	4,049	4,049	100	0	4,149	
	244	Bani Mohamad Sharawy	900	735	561	1,296	1,296	418	0	1,714	
	245	Bani Mosa	654	894	199	1,093	1,093	250	0	1,343	
	246	Gerass	1,600	1,886	239	2,125	2,125	145	0	2,270	
	247	Gewad	516	1,119	134	1,253	1,253	423	0	1,676	
	248	Rehana	421	682	53	735	735	92	0	827	
	249	Zawiat Hatem	794	650	432	1,082	1,082	123	0	1,205	
	250	Sakiat Mosa	1,045	1,132	208	1,340	1,340	408	0	1,748	
	251	Safay	1,453	1,011	222	1,233	1,233	265	0	1,498	
	252	Sheba	890	1,292	268	1,560	1,560	0	0	1,560	
	253	Saneam	1,215	1,301	120	1,421	1,421	134	0	1,555	
	254	Kafr Labs	601	461	106	567	567	0	0	567	
	255	Koam El Zaher	813	1,443	170	1,613	1,613	386	0	1,999	
	256	Koam El Mahres	480	516	90	606	606	60	0	666	
	257	Makean	330	485	15	500	500	0	0	500	
	258	Mantot	1,500	1,822	179	2,001	2,001	4	0	2,005	
	259	Mansafes	1,220	1,260	514	1,774	1,774	478	0	2,252	
	260	Mnshaat El Nasir	165	87	53	140	140	4	0	144	
	261	Mnshaat Deaabas	470	354	69	423	423	4	0	427	
	262	Mnshaat Zaafrana	173	308	84	392	392	1	0	393	
	263	Manahry	1,129	603	255	858	858	0	0	858	
	264	Nazlit Asmant	570	589	120	709	709	1	0	710	
	265	Nazlit Gerass	1,155	1,116	115	1,231	1,231	68	0	1,299	
	266	Nazlit Herz	600	613	116	729	729	100	0	829	
		Sub-total	43,445	45,758	11,336	57,094	57,094	6,069	35	63,198	

District	No.	Village Cooperative	No. of Members	Land (fed)							Capital
				Assuarance			Assuarance	Reform	Agencies	Total	
				Cultivated	Public	Total					
El Minia	179	Admo	888	2,514	1,107	3,621	3,621	527	0	4,148	
	180	Esmaailia	300	268	28	296	296	594	0	890	
	181	Borgaia	416	455	1,162	1,617	1,617	1,609	31	3,257	
	182	Hawrta	296	372	61	433	433	265	0	698	
	183	Hawslia	230	119	563	682	682	1,011	0	1,693	
	184	Dawidea	456	412	166	578	578	352	0	930	
	185	Matahra El Baharia	325	232	141	373	373	591	0	964	
	186	Bandar El Minia	670	1,004	1,504	2,508	2,508	12	24	2,544	
	187	Bani Ahmad	1,200	3,159	763	3,922	3,922	892	0	4,814	
	188	Bani Hassan El Ashraf	538	707	95	802	802	115	0	917	
	189	Bani Hamad	185	172	43	215	215	82	0	297	
	190	Bani Kamgar	760	726	61	787	787	241	0	1,028	
	191	Bani Mohamad Soultan	500	402	120	522	522	13	6	541	
	192	Bhdal	773	1,023	201	1,224	1,224	453	0	1,677	
	193	Tala	2,370	2,987	1,515	4,502	4,502	309	0	4,811	
	194	Damares	270	331	588	919	919	112	105	1,136	
	195	Dmshaw Hashem	800	911	111	1,022	1,022	210	0	1,232	
	196	Damsher	1,340	2,158	380	2,538	2,538	375	0	2,913	
	197	Dear Atia	660	1,246	71	1,317	1,317	66	0	1,383	
	198	Dida	900	1,122	194	1,316	1,316	202	0	1,518	
	199	Zawit Soultan	220	232	646	878	878	94	0	972	
	200	Zahra	693	961	657	1,618	1,618	452	0	2,070	
	201	Sawada	700	668	498	1,166	1,166	98	0	1,264	
	202	Saft El Khamar	1,790	3,034	717	3,751	3,751	334	0	4,085	
	203	Saft El Sharkia	819	679	183	862	862	38	0	900	
	204	Saft El Gharbia	1,600	3,526	4,579	8,105	8,105	31	0	8,136	
	205	Saft El Laban	786	1,266	82	1,348	1,348	65	0	1,413	
	206	Tahna El Gabal	280	451	240	691	691	270	0	961	
	207	Tahnasha	770	675	152	827	827	200	0	1,027	
	208	Tokh El Nakhil	1,600	4,056	1,659	5,715	5,715	313	0	6,028	
	209	Tawa	1,600	2,111	340	2,451	2,451	49	0	2,500	
	210	Kafr El Mansoura	477	1,094	558	1,652	1,652	0	3	1,655	
	211	Makosa	460	719	372	1,091	1,091	130	0	1,221	
	212	Mnshaat El Dahab El Bahary	600	263	78	341	341	34	0	375	
	213	Mnshaat El Dahab El Kbly	2,000	1,443	773	2,216	2,216	72	0	2,288	
	214	Mahdia	267	398	37	435	435	0	0	435	
	215	Nazlit El Falahean	356	411	104	515	515	12	0	527	
	216	Nazlit Hasan	630	817	250	1,067	1,067	527	0	1,594	
	217	Nazlit Ebad	350	611	381	992	992	213	0	1,205	
	218	Nazlit Faragalla	204	176	48	224	224	141	0	365	
	219	Nazlit Mahdi	315	376	154	530	530	117	0	647	
		Sub-total	30,394	44,287	21,382	65,669	65,669	11,221	169	77,059	
Mallawe	267	Abshadat	1,774	1,733	221	1,954	1,954	0	0	1,954	
	268	Abo Kelta	836	968	265	1,233	1,233	208	0	1,441	
	269	Atka	1,515	1,239	136	1,375	1,375	365	0	1,740	
	270	Edara	119	417	191	608	608	698	0	1,306	
	271	Ashmonen	1,508	1,616	429	2,045	2,045	29	0	2,074	
	272	Baragil	506	494	59	553	553	43	0	596	
	273	Barsha	1,394	2,070	349	2,419	2,419	0	0	2,419	
	274	Baraka	581	546	48	594	594	0	0	594	
	275	Byadia	1,732	1,311	229	1,540	1,540	45	0	1,585	
	276	Horia	674	689	166	855	855	3	0	858	
	277	Roda	1,227	1,516	284	1,800	1,800	380	0	2,180	
	278	Rayramon	585	787	166	953	953	1,071	0	2,024	
	279	Sawahga	1,599	910	78	988	988	0	0	988	
	280	El Shekh Hassan	340	282	68	350	350	0	0	350	
	281	El Shekh Shebeka	762	820	742	1,562	1,562	77	0	1,639	
	282	El Shekh Ebada	712	679	1,007	1,686	1,686	34	0	1,720	
	283	El Arean Bahary	376	497	122	619	619	0	0	619	
	284	El Arean Kibly	804	1,086	137	1,223	1,223	152	0	1,375	
	285	Mahrith	2,042	2,228	239	2,467	2,467	93	0	2,560	
	286	Masara	1,328	1,205	363	1,568	1,568	94	0	1,662	
	287	Abo Faahs	1,767	1,662	133	1,795	1,795	67	0	1,862	
	288	Bandar mallawy				0				0	
	289	Bani Havez	183	200	15	215	215	32	0	247	
	290	Bani Khalid	641	1,707	329	2,036	2,036	72	0	2,108	
	291	Bani Roah	249	222	62	284	284	0	0	284	
	292	Tanda	133	352	24	376	376	7	0	383	
	293	Tona El Gabal	1,593	1,351	895	2,246	2,246	65	0	2,311	
	294	Galal El Sharkia	599	594	73	667	667	23	0	690	
	295	Galal El Gharbia	812	794	115	909	909	217	0	1,126	
	296	Hamdy	541	332	56	388	388	7	0	395	
	297	Hamzawy	260	274	14	288	288	0	0	288	
	298	Drwa	2,297	1,856	511	2,367	2,367	109	0	2,476	
	299	Dear Abo Henas	1,622	1,018	568	1,586	1,586	0	0	1,586	
	300	Dear El Barsha	1,121	963	116	1,079	1,079	0	0	1,079	
	301	Dayrout Om Nakhla	2,265	1,931	163	2,094	2,094	9	0	2,103	
	302	Singarg	874	694	104	798	798	698	0	1,496	
	303	Seaf El Sharkia	522	556	31	587	587	33	0	620	
	304	Seaf El Gharbia	489	235	24	259	259	0	0	259	
	305	Sharmokh	298	364	74	438	438	78	0	516	
	306	Sharawy	256	273	68	341	341	1,036	0	1,377	
	307	Kaser Hour	1,310	1,665	441	2,106	2,106	0	0	2,106	
	308	Kilba	955	878	164	1,042	1,042	446	0	1,488	
	309	Kalandoul	2,020	2,743	354	3,097	3,097	874	0	3,971	
	310	Mnshaat El Maghalka	2,347	2,908	77	2,985	2,985	88	0	3,073	
	311	Naghaa Morakab	538	1,265	140	1,405	1,405	0	0	1,405	
	312	Nazlit Tenda	1,013	2,919	234	3,153	3,153	278	0	3,431	
	313	Nazlit Tona	521	247	25	272	272	0	0	272	
	314	Naway	1,430	1,169	221	1,390	1,390	60	0	1,450	
	315	Hour	2,374	2,258	276	2,534	2,534	29	0	2,563	
		Sub-total	49,444	52,523	10,606	63,129	63,129	7,520	0	70,649	

List of Village Agriculture Cooperative in Minia (As of 2009/10l) (Source: Minia Governorate Agriculture Directorate)

District	No.	Village Cooperative	No. of Members	Land (fed)							Capital (2009/10)
				Assuarance							
				Cultivated	Public	Total	Assuarance	Reform	Agencies	Total	
Dayr Muas	316	Ab Khilka	.	276	55	331	331	0	0	331	
	317	Asmo El Arous	1,833	2,214	177	2,391	2,391	86	0	2,477	
	318	Badraman	800	1,070	106	1,176	1,176	155	0	1,331	
	319	El Hag Kandil	383	305	197	502	502	18	0	520	
	320	Hisbania	172	106	33	139	139	0	0	139	
	321	Rahmania	896	982	81	1,063	1,063	23	0	1,086	
	322	Sawalim	700	688	59	747	747	21	0	768	
	323	El Amaria El Sharkia	677	544	134	678	678	31	0	709	
	324	El Amaria El Gharbia	456	464	45	509	509	0	0	509	
	325	Nasria	416	599	49	648	648	40	0	688	
	326	Oda Basha	220	402	61	463	463	30	0	493	
	327	Awlad Morgan	102	168	14	182	182	0	0	182	
	328	Bani Haram	1,200	1,650	231	1,881	1,881	98	0	1,979	
	329	Bani Salim	1,390	1,446	190	1,636	1,636	73	0	1,709	
	330	Bani Omran	590	342	76	418	418	0	0	418	
	331	Tanouf	1,400	2,338	164	2,502	2,502	2	0	2,504	
	332	Tall Bani Omran	1,725	1,128	117	1,245	1,245	32	0	1,277	
	333	Delga	2,000	9,219	286	9,505	9,505	1,062	0	10,567	
	334	Dear Mawas	3,067	4,135	229	4,364	4,364	157	6	4,527	
	335	Zabara	157	108	10	118	118	0	0	118	
	336	Tokh	747	662	157	819	819	853	0	1,672	
	337	Kafr Khozam	525	579	179	758	758	88	0	846	
	338	Mnshaat Khozam	580	997	85	1,082	1,082	21	0	1,103	
	339	Nazlit El Badraman	1,430	1,457	82	1,539	1,539	166	0	1,705	
	340	Nazlit Saaed	168	78	10	88	88	0	0	88	
	341	Nazlit Abd El Maseah	75	64	16	80	80	0	0	80	
	342	Nazlit Mahmoud	430	411	125	536	536	33	0	569	
		Sub-total	22,139	32,432	2,968	35,400	35,400	2,989	6	38,395	

District	No.	Village Cooperative	No. of Members	Land (fed)							Capital
				Assuarance							
				Cultivated	Public	Total	Assuarance	Reform	Agencies	Total	

List of Village Agriculture Cooperative in Assiut (As of 2012April) (Source: Assiut Governorate Agriculture Directorate)

District	No.	Village	Command area which is expected to be cultivated			No. of holders
			Arrow	Karat	Feddan	
Dayrout	1	Kodia El Nasara		6	1,182	806
	2	Sarrakna		12	734	649
	3	Zawit Haron			164	245
	4	Kodia El Eslam		3	1,537	973
	5	Dashlout Bahary			1,275	704
	6	Riad			564	391
	7	Msara			2,340	1,989
	8	Garf Sarrhan			470	409
	9	Nazlet Saw		4	957	547
	10	Mndara Bahary		4	1,411	1,404
	11	Awaga		7	617	428
	12	Amshol		8	1,564	1,291
	13	Saw		3	1,203	585
	14	Abo El Hodr			1,473	852
	15	Nazlet Badawi			354	332
	16	Nazlet Farag			470	497
	17	Nazlet Daher		21	184	177
	18	Abo Kaream		6	1,378	721
	19	Sanabo		3	4,562	2,597
	20	Kharfa		8	314	214
	21	Kasr Hedar		19	423	433
	22	Mazina		16	431	455
	23	Kom Boha			280	410
	24	Mnashi		2	1,055	818
	25	Nhaia		12	305	381
	26	Aramit El Khodeary			206	240
	27	Bilaw		3	1,750	1,484
	28	Hawta		12	587	770
	29	Koam Nagasha		3	790	461
	30	Naga Kheder		8	829	323
	31	Banoub		21	1,192	938
	32	Dashlout Kibly			815	611
	33	Awamer		14	528	517
	34	Nazlit Sarrakna		2	253	282
	35	Mahmodia			600	628
	36	Dayrout El Sheref			2,313	1,606
	37	Bani Yahia, Dayrout El Mahata			513	353
	38	Dayrout El Mahata				357
	39	Shalash			414	407
	40	Nazlit Mostafa		9	361	525
	41	Bawit		18	1,382	768
	42	Nazlit Abdalla			239	257
	43	Matawaa			26	42
	44	Land reform			1,748	
		Sub Total		39,784		28,877
Manfloot	76	Manfloot			3,893	3,106
	77	Koom Boha			335	403
	78	Bany Shekeer			2,137	1,262
	79	Damanhoor			670	617
	80	Koom El Shaheed			437	452
	81	El Sahreeg			180	232
	82	Gezerat El Maabda			980	756
	83	Om El Kosor			1,717	1,653
	84	Bany Rafea			3,861	2,174
	85	El Medwar			278	115
	86	Naslet Rafea			1,245	959
	87	Naslet Karar			2,332	1,306
	88	Bany Magd			2,437	1,800
	89	Serawa			311	330
	90	Bany Shakran			1,473	880
	91	El Kayafa			2,831	1,534
	92	Bany Ady El Bahrya			1,543	1,340
	93	Alyo			778	740
	94	Bany Ady El Keblya			1,488	970
	95	El Wasty			1,618	890
	96	El Karya			1,344	1,520
	97	Gahdam			1,123	900
	98	Bany Sanad			1,134	852
	99	Sokra			827	841
	100	El Gedaly			460	480
	101	El Hawatka			4,840	3,649
	102	El Mandara Kebly			794	722
		Sub Total		41,066		30,483

District	No.	Village	Command area which is expected to be cultivated			No. of holders
			Arrow	Karat	Feddan	
El Kosya	45	Kosia			3,433	3,865
	46	Bani Adreas			947	1,111
	47	Sarakna			635	952
	48	Mnshia Soghra			326	551
	49	Haradna			645	695
	50	Sheakg Awnalla			981	865
	51	Mear			4,360	2,698
	52	Habalsa			654	755
	53	Ank			309	458
	54	Bani Salih			780	773
	55	Ansar			2,127	1,850
	56	Bani Hilal			1,025	780
	57	Sobha			904	800
	58	Dewan			211	231
	59	Mnshat Kobra			1,147	787
	60	Mnshat Khashaba			1,530	1,027
	61	Tatalia			2,125	1,900
	62	Darnet ElDear			741	1,047
	63	Tmsahia			1,276	1,700
	64	Bani korah			1,681	1,687
	65	Bani Zead			1,463	1,516
	66	Bani Yahya			95	64
	67	Bouk			1,665	1,563
	68	Balout			2,448	1,689
	69	Abo Khalil			505	465
	70	Nazali			713	1,123
	71	Tnafa			112	252
	72	Sheakh Dawod			51	162
	73	Fazaza			1,650	1,580
	74	Kosear			1,790	959
	75	Dear Kosear			1,534	894
		Sub Total		37,863		34,799
Assiut	103	Mnkabad			2,050	1,014
	104	Gharb Assuit			2,459	860
	105	Salam			1,011	808
	106	Baheg			1,264	755
	107	Gamsa			901	459
	108	Bani Hesean			1,620	1,200
	109	Naga Saba			1,150	818
	110	Naga Abe ElRasoul			496	323
	111	Negoa Bani Hesean			618	700
	112	Awlad Raik			820	428
	113	Mssra			2,056	1,202
	114	Pora			925	555
	115	Alwai and Hadaia			1,325	1,012
	116	Bani Ghalib			1,231	930
	117	Drnka			2,983	665
	118	Daer Drnka			608	288
	119	Zawia			1,489	959
	120	Rifa			4,569	2,026
	121	Mosha			4,485	1,910
	122	Krkars			690	520
	123	Shaghia and Namaia			1,033	617
	124	Shatab			2,207	885
	125	Matiaa			4,112	2,190
	126	Awlad Ibrahiam			857	636
	127	Nazlit Abdalla			315	117
	128	Walidia			562	358
		Sub Total		41,836		22,235

List of Village Agriculture Cooperative in Assiut (As of 2012April) (Source: Assiut Governorate Agriculture Directorate)

District	No.	Village	Command area which is expected to be cultivated			No. of holders
			Arrow	Karat	Feddan	
Abo Teag	129	Nikhila			4,984	2,200
	130	Zarabi			3,544	1,463
	131	Bakor, Nazlet Bakor			3,558	260
	132	Dwina			4,347	2,485
	133	Bani Samea			2,437	1,465
	134	Zera			1,007	794
	135	Akader			1,221	1,179
	136	Blaiza		12	1,230	1,150
	137	Masoady			1,202	650
	138	Abo Teg			2,119	1,133
	139	Abo Herth			416	431
	140	Dakran		12	1,107	587
		Sub Total		27,173		13,797
Ghanaim	159	Ghanaym Kibly		6	714	610
	160	Ghanaym Shark		6	564	580
	161	Ghanaym Gharb			503	525
	162	Ghanaym Bahary		6	952	920
	163	Mashaia		9	1,715	1,200
	164	Dear El Ganadla		15	247	1,655
	165	Aziza		2	1,072	750
	166	Awlad Mohamad			601	615
	167	Nazlet El Kadem		4	130	170
		Sub Total		8,724		7,025
El Fath	189	Tawabia		6	1,604	325
	190	Akrad		2	1,158	783
	191	Bani Zed		18	897	771
	192	Bani Mor		22	2,444	1,709
	193	Bani Aleag		17	454	443
	194	Atawla		4	1,561	1,202
	195	Arab Mater		13	2,126	1,149
	196	Masara		10	198	297
	197	Masara		17	1,976	1,513
	198	Kasr		13	615	543
	199	Fima		17	2,202	1,592
	200	Awlad Badr, Kota		4	744	736
	201	Mnsheat El Masara		19	444	394
	202	Wasta		20	1,552	1,088
	203	Awlad Serag		22	133	268
	204	Tal Awlad Serag		20	152	
	205	Bani Talib	12	17	371	673
	206	Ateat	18	4	128	
	207	Kalabat	18	1	559	
	208	Basra		10	1,903	934
	209	Dear Basra		8	107	96
	210	Land reform			377	
		Sub Total		21,716		14,516
Badary	229	M. Hamam			587	550
	230	Nwames			686	700
	231	Badary			4,527	4,040
	232	Koam Seada			261	325
	233	Koam El Ahmer			174	195
	234	Mnshat Badary			1,144	1,120
	235	Ekal Bahary			1,611	1,960
	236	Mnshat Ekal			1,264	1,510
	237	Naga Zareak			185	260
	238	Teama			635	340
	239	Sheakh Othman			462	680
	240	Biadia			460	485
	241	Ekal Kably			712	580
	242	Hamamia			1,225	775
	243	Negoa El Maade			1,066	640
	244	Negoa El Gazira			501	400
	245	Azbet El Akbat			316	370
	246	Atmania Bahary			477	355
	247	Atmania Kibly			1,103	990
	248	Nawawra			977	700
	249	Azbet El Nawawra			1,079	625
	250	Land reform			281	
		Sub Total		19,733		17,600

District	No.	Village	Command area which is expected to be cultivated			No. of holders
			Arrow	Karat	Feddan	
El Sadfa	141	Sadfa	15	9	1,300	900
	142	Bani Feaz		15	1,683	1,601
	143	Mgres	16	12	1,039	1,060
	144	Nazlit El Ablak	16	18	222	293
	145	Awlad Alias	2	16	2,444	1,910
	146	Koam Saead	18	8	261	320
	147	Kardos	5	8	174	310
	148	Waadla	12	11	392	585
	149	Korde	12	20	32	78
	150	Dwobar	16	9	4,326	2,025
	151	Koam Asmant		14	1,580	1,095
	152	Barba	22	2	1,959	1,559
	153	Koam Saead El Gharby		1	244	336
	154	Amry	8	18	210	326
	155	Shanania	8	3	883	960
	156	Ngoa El Dadra	12	18	130	146
	157	Koam Abo Hagar	18	1	130	207
	158	Land reform	8	11	82	98
		Sub Total		17,100		13,809
Abnoub	168	Maabda El Sharkia			2,504	1,579
	169	Maabda El Gharbia			2,793	1,714
	170	Shaklakeal			691	703
	171	Shanabla			338	305
	172	Koam El Mansora			936	800
	173	Bani Mohamad El Shhabia			2,198	1,341
	174	Bani Mohamad El Akb			1,326	1,165
	175	Bani Mohamad El Marawna			1,652	1,284
	176	Ateat El Baharia			1,534	1,028
	177	Gezert Baheg			1,783	1,313
	178	Sawalim El Baharia			2,167	1,171
	179	Bani Ibrahiam			1,418	634
	180	Dear Gabrawy			502	324
	181	Kdadeah			842	458
	182	Dear Show			591	517
	183	Abnoub			5,137	2,710
	184	Bani Razah			1,876	1,134
	185	Sawalim Abnoub			592	403
	186	Hammam			3,997	2,757
	187	Koam Abo Sheal			901	647
	188	Awamer			1,249	272
		Sub Total		35,027		22,259
Sahel Selem	211	El Ghoryeb			1,731	596
	212	El Matmar			643	523
	213	El Ona			1,495	1,055
	214	El Loka			245	340
	215	El Sahel			3,042	2,700
	216	Naslet El Malek			178	275
	217	El Khawaled			355	352
	218	Wady Salah El Deen			129	212
	219	El Shamea			2,286	1,727
	220	El Sheakh shehata			197	178
	221	El Atarda			515	472
	222	Tasa			1,917	1,590
	223	Der Tasa			285	228
	224	El Royhat			297	293
	225	Boyet			612	708
	226	El Tanagha El Sharkya			226	331
	227	Bakhom			49	87
	228	Total reform			180	0
		Sub Total		14,382		11,667

APPENDIX 4.7 Agriculture Statistics of Minia and Assiut

Data Source: Economic Affairs Sector, Ministry of Agriculture and Land Reclamation

Summer and Nile 2004 (fed)

Governorate	Category	Cultivated Area	Cropped Area (fed) and Cropping Intensity (%)													
			Winter		Summer		Nile		Short Clover		Nile		Permanent		Total	
		(fed)	fed	(%)	fed	(%)	fed	(%)	fed	(%)	fed	(%)	fed	(%)	fed	(%)
Minya	Old Land	462229	356644	0%	304951	66%	35178	8%	6907	1%	42085	9%	105585	23%	809265	175%
	New Land	34659	34283	0%	32095	93%	500	1%		0%	500	1%	376	1%	67254	194%
	Total	496,888	390,927	0%	337,046	68%	35,678	7%	6,907	1%	42,585	9%	105,961	21%	876,519	176%
Assuit	Old Land	335194	282763	0%	264818	79%	3674	1%	7001	2%	10675	3%	52431	16%	610687	182%
	New Land	12167	12167	0%	11115	91%	1082	9%		0%	1082	9%		0%	24364	200%
	Total	347,361	294,930	0%	275,933	79%	4,756	1%	7,001	2%	11,757	3%	52,431	15%	635,051	183%

Summer and Nile 2005 (fed)

Governorate	Category	Cultivated Area	Cropped Area (fed) and Cropping Intensity (%)													
			Winter		Summer		Nile		Short Clover		Nile		Permanent		Total	
		(fed)	fed	(%)	fed	(%)	fed	(%)	fed	(%)	fed	(%)	fed	(%)	fed	(%)
Minya	Old Land	459996	358270	78%	338097	73%	27042	6%	4184	1%	31226	7%	101726	22%	829319	180%
	New Land	24671	24410	99%	27256	110%	100	0%		0%	100	0%	261	1%	52027	211%
	Total	484,667	382,680	79%	365,353	75%	27,142	6%	4,184	1%	31,326	6%	101,987	21%	881,346	182%
Assuit	Old Land	336540	281120	84%	265210	79%	1715	1%	10412	3%	12127	4%	55420	16%	613877	182%
	New Land	16188	15953	99%	12346	76%	751	5%		0%	751	5%	235	1%	29285	181%
	Total	352,728	297,073	84%	277,556	79%	2,466	1%	10,412	3%	12,878	4%	55,655	16%	643,162	182%

Note: Permanet crop includes sugarcane and cotton according to the category of MALR.

Summer and Nile 2006 (fed)

Governorate	Category	Cultivated Area	Cropped Area (fed) and Cropping Intensity (%)													
			Winter		Summer		Nile		Short Clover		Nile		Permanent		Total	
		(fed)	fed	(%)	fed	(%)	fed	(%)	fed	(%)	fed	(%)	fed	(%)	fed	(%)
Minya	Old Land	457922	371503	81%	345473	75%	32160	7%	3212	1%	35372	8%	86419	19%	838767	183%
	New Land	27834	27150	98%	24619	88%	55	0%		0%	55	0%	684	2%	52508	189%
	Total	485,756	398,653	82%	370,092	76%	32,215	7%	3,212	1%	35,427	7%	87,103	18%	891,275	183%
Assuit	Old Land	326015	280896	86%	277288	85%	3542	1%	13221	4%	16763	5%	45119	14%	620066	190%
	New Land	17686	17393	98%	11523	65%	726	4%		0%	726	4%	293	2%	29935	169%
	Total	343,701	298,289	87%	288,811	84%	4,268	1%	13,221	4%	17,489	5%	45,412	13%	650,001	189%

Summer and Nile 2007 (fed)

Governorate	Category	Cultivated Area	Cropped Area (fed) and Cropping Intensity (%)													
			Winter		Summer		Nile		Short Clover		Nile		Permanent		Total	
		(fed)	fed	(%)	fed	(%)	fed	(%)	fed	(%)	fed	(%)	fed	(%)	fed	(%)
Minya	Old Land	455696	359944	79%	340711	75%	44961	10%	2182	0%	47143	10%	95752	21%	843550	185%
	New Land	38307	36346	95%	24217	63%	369	1%		0%	369	1%	1961	5%	62893	164%
	Total	494,003	396,290	80%	364,928	74%	45,330	9%	2,182	0%	47,512	10%	97,713	20%	906,443	183%
Assuit	Old Land	332835	281836	85%	269499	81%	5138	2%	9007	3%	14145	4%	50999	15%	616479	185%
	New Land	20115	18922	94%	12108	60%		0%		0%	0	0%	1193	6%	32223	160%
	Total	352,950	300,758	85%	281,607	80%	5,138	1%	9,007	3%	14,145	4%	52,192	15%	648,702	184%

Summer and Nile 2008 (fed)

Governorate	Category	Cultivated Area	Cropped Area (fed) and Cropping Intensity (%)													
			Winter		Summer		Nile		Short Clover		Nile		Permanent		Total	
		(fed)	fed	(%)	fed	(%)	fed	(%)	fed	(%)	fed	(%)	fed	(%)	fed	(%)
Minya	Old Land	435,948	358,733	82%	361,520	83%	45,336	10%	2,301	1%	47,637	11%	77,215	18%	845,105	194%
	New Land	31,594	29,323	93%	29,076	92%	300	1%		0%	300	1%	2,271	7%	60,970	193%
	Total	467,542	388,056	83%	390,596	84%	45,636	10%	2,301	0%	47,937	10%	79,486	17%	906,075	194%
Assuit	Old Land	312,101	274,008	88%	281,622	90%	3,533	1%	9,708	3%	13,241	4%	38,093	12%	606,964	194%
	New Land	18,847	17,935	95%	15,811	84%		0%		0%	0	0%	912	5%	34,658	184%
	Total	330,948	291,943	88%	297,433	90%	3,533	1%	9,708	3%	13,241	4%	39,005	12%	641,622	194%

Summer and Nile 2009 (fed)

Governorate	Category	Cultivated Area	Cropped Area (fed) and Cropping Intensity (%)													
			Winter		Summer		Nile		Short Clover		Nile		Permanent		Total	
		(fed)	fed	(%)	fed	(%)	fed	(%)	fed	(%)	fed	(%)	fed	(%)	fed	(%)
Minya	Old Land	425,931	360,246	85%	353,100	83%	37,575	9%	2,431	1%	40,006	9%	65,685	15%	819,037	192%
	New Land	78,318	73,469	94%	63,563	81%	1,620	2%		0%	1,620	2%	4,849	6%	143,501	183%
	Total	504,249	433,715	86%	416,663	83%	39,195	8%	2,431	0%	41,626	8%	70,534	14%	962,538	191%
Assuit	Old Land	299,492	277,413	93%	286,286	96%	3,588	1%	9,302	3%	12,890	4%	22,079	7%	598,668	200%
	New Land	42,536	27,266	64%	17,480	41%	10	0%		0%	10	0%	15,270	36%	60,026	141%
	Total	342,028	304,679	89%	303,766	89%	3,598	1%	9,302	3%	12,900	4%	37,349	11%	658,694	193%

Summer and Nile 2010 (fed)

Governorate	Category	Cultivated Area	Cropped Area (fed) and Cropping Intensity (%)													
			Winter		Summer		Nile		Short Clover		Nile		Permanent		Total	
		(fed)	fed	(%)	fed	(%)	fed	(%)	fed	(%)	fed	(%)	fed	(%)	fed	(%)
Minya	Old Land	422,792	356,307	84%	349,817	83%	36,081	9%	330	0%	36,411	9%	66,485	16%	809,020	191%
	New Land	49,979	45,879	92%	25,082	50%	1,547	3%		0%	1,547	3%	4,100	8%	76,608	153%
	Total	472,771	402,186	85%	374,899	79%	37,628	8%	330	0%	37,958	8%	70,585	15%	885,628	187%
Assuit	Old Land	307,035	284,605	93%	285,400	93%	3,447	1%	9,224	3%	12,671	4%	22,430	7%	605,106	197%
	New Land	38,225	24,335	64%	13,546	35%	1,390	4%	327	1%	1,717	4%	13,890	36%	53,488	140%
	Total	345,260	308,940	89%	298,946	87%	4,837	1%	9,551	3%	14,388	4%	36,320	11%	658,594	191%

Cropped Area (fed) Winter Crop

Crop	Land	Minya								
		2003	2004	2005	2006	2007	2008	2009	2010	2011
Long Clover	Old Land	119250	119911	106427	99801	116142	107192	99702	106043	107185
	New Land	0	4,728	5,412	5,608	5,952	4,222	5,902	3,517	3,742
	Total	119,250	124,639	111,839	105,409	122,094	111,414	105,604	109,560	110,927
Flax	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Wheat	Old Land	169281	168964	189867	190956	167252	191522	212109	191294	196684
	New Land	13,678	15,131	4,836	5,615	12,815	18,445	18,905	21,077	17,097
	Total	182,959	184,095	194,703	196,571	180,067	209,967	231,014	212,371	213,781
Barley	Old Land	428	372	262	246	313	250	101	485	159
	New Land	0	1,460	870	1,201	877	573	1,573	410	821
	Total	428	1,832	1,132	1,447	1,190	823	1,674	895	980
Broad Bean	Old Land	9725	8211	5014	4349	4252	3091	1764	1365	391
	New Land	351	439	463	412	357	171	316	122	107
	Total	10,076	8,650	5,477	4,761	4,609	3,262	2,080	1,487	498
Lentil	Old Land		9	1			3	8	3	
	New Land		0	0			0		0	
	Total	0	9	1	0	0	3	8	3	0
Fenugreek	Old Land	3769	3368	4814	5106	3826	2044	2753	3703	2803
	New Land	696		700	578	817	444	463	409	555
	Total	4,465	3,368	5,514	5,684	4,643	2,488	3,216	4,112	3,358
Chick pea	Old Land	1323	1038	1324	1353	582	339	493	810	883
	New Land	0	0	0	4		0		0	
	Total	1,323	1,038	1,324	1,357	582	339	493	810	883
Lupine	Old Land	671	447	157	242	214	77	65	84	142
	New Land	20	15	0	0	0	0			
	Total	691	462	157	242	214	77	65	84	142
Onion	Old Land	1258	1475	1786	1905	1480	1796	1256	1256	1342
	New Land	1,428	3,769	3,366	1,090	883	1,493	9,290	3,307	2,297
	Total	2,686	5,244	5,152	2,995	2,363	3,289	10,546	4,563	3,639
Garlic	Old Land	11127	8713	7065	7365	8984	14379	7075	6260	6894
	New Land	6		3	3	500	4		5	
	Total	11,133	8,713	7,068	7,368	9,484	14,383	7,075	6,265	6,894
Sugarbeet	Old Land	4946	5546	6408	8573	13892	7801	9588	14011	16033
	New Land	1,040		0	245	1,159	934	1,358	1,322	920
	Total	5,986	5,546	6,408	8,818	15,051	8,735	10,946	15,333	16,953
Potatoes	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Tomatoes	Old Land	10748	14026	9714	15744	13816	15786	6080	6455	5225
	New Land	7,100	5,450	5,835	8,080	6,640	0	15,644	8,693	6,709
	Total	17,848	19,476	15,549	23,824	20,456	15,786	21,724	15,148	11,934
Other vegetables	Old Land	5623	3846	3601	4396	5575	3446	2327	4104	
	New Land	1,851	2,100	1,130	1,995	3,541	605	3,025	1,129	
	Total	7,474	5,946	4,731	6,391	9,116	4,051	5,352	5,233	0
Other Crops	Old Land	25946	20718	21830	32206	23616	14584	14494	20104	
	New Land	577	1,191	1,795	2,319	2,805	2,434	16,993	5,888	
	Total	26,523	21,909	23,625	34,525	26,421	17,018	31,487	25,992	0
Total	Old Land	364095	356644	358270	372242	359944	362310	357815	355977	337741
	New Land	26,747	34,283	24,410	27,150	36,346	29,325	73,469	45,879	32,248
	Total	390,842	390,927	382,680	399,392	396,290	391,635	431,284	401,856	369,989

Crop Production (t) Winter Crop

Crop	Land	Minya								
		2003	2004	2005	2006	2007	2008	2009	2010	2011
Long Clover	Old Land	3524082	3313616	2969033	2621540	2895209	2979803	2863773	2652174	2704533
	New Land	0	99034	121359	174374	154066	117604	180668	81823	92090
	Total	3524082	3412650	3090392	2795914	3049275	3097407	3044441	2733997	2796623
Flax	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Wheat	Old Land	499197	521927	571879	548580	504071	553421	622032	499951	621942
	New Land	35958	37262	12774	16070	38561	54500	55416	54974	49544
	Total	535155	559189	584653	564650	542632	607921	677448	554925	671486
Barley	Old Land	869	913	541	549	681	511	186	862	298
	New Land	0	2800	1494	2111	1531	1051	2129	616	1539
	Total	869	3713	2035	2660	2212	1562	2315	1478	1837
Broad Bean	Old Land	11152	9914	6065	5147	5042	3429	2045	1516	489
	New Land	374	498	447	318	341	201	270	123	107
	Total	11526	10412	6512	5465	5383	3630	2315	1639	596
Lentil	Old Land	0	7	1	0		2	7	2	
	New Land	0		0	0		0		0	
	Total	0	7	1	0	0	2	7	2	0
Fenugreek	Old Land	3853	3346	4943	5162	3809	1914	2643	3759	2869
	New Land	691		576	447	665	417	400	392	569
	Total	4544	3346	5519	5609	4474	2331	3043	4151	3438
Chick pea	Old Land	1236	996	1205	1149	501	304	445	3969	707
	New Land	0			3		0			
	Total	1236	996	1205	1152	501	304	445	3969	707
Lupine	Old Land	688	463	158	227	213	81	614	106	194
	New Land	16	14		0		0			
	Total	704	477	158	227	213	81	614	106	194
Onion	Old Land	12778	14257	17742	20283	18532	28848	15541	12751	21817
	New Land	53152	39799	35483	11470	8075	14553	93681	45974	25239
	Total	65930	54056	53225	31753	26607	43401	109222	58725	47056
Garlic	Old Land	112174	87611	70352	74022	87581	123399	68298	62977	68229
	New Land	100		19	19	3837	20		45	
	Total	112274	87611	70371	74041	91418	123419	68298	63022	68229
Sugarbeet	Old Land	136213	145938	189722	254644	411652	211491	271907	399790	457060
	New Land	21219			7277	31239	15322	23418	29615	18200
	Total	157432	145938	189722	261921	442891	226813	295325	429405	475260
Potatoes	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Tomatoes	Old Land	173888	231511	163689	290898	277900	236959	101500	110717	87912
	New Land	118215	90470	87525	121945	99600	0	252039	148569	115275
	Total	292103	321981	251214	412843	377500	236959	353539	259286	203187
Other vegetables	Old Land							119650		
	New Land							269475		
	Total	0	0	0	0	0	0	389125	0	0
Other Crops	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Total	Old Land	4476130	4330499	3995330	3822201	4205191	4140162	4068641	3748574	3966050
	New Land	229725	269877	259677	334034	337915	203668	877496	362131	302563
	Total	4705855	4600376	4255007	4156235	4543106	4343830	4946137	4110705	4268613

Crop Yield (t/fed) Winter Crop

Crop	Land	Minya								
		2003	2004	2005	2006	2007	2008	2009	2010	2011
Long Clover	Old Land	29.55	27.63	27.90	26.27	24.93	27.80	28.72	25.01	25.23
	New Land		20.95	22.42	31.09	25.88	27.86	30.61	23.26	24.61
	Total	29.55	27.38	27.63	26.52	24.97	27.80	28.83	24.95	25.21
Flax	Old Land									
	New Land									
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wheat	Old Land	2.95	3.09	3.01	2.87	3.01	2.89	2.93	2.61	3.16
	New Land	2.63	2.46	2.64	2.86	3.01	2.95	2.93	2.61	2.90
	Total	2.92	3.04	3.00	2.87	3.01	2.90	2.93	2.61	3.14
Barley	Old Land	2.03	2.45	2.06	2.23	2.18	2.04	1.84	1.78	1.87
	New Land	0.00	1.92	1.72	1.76	1.75	1.83	1.35	1.50	1.87
	Total	2.03	2.03	1.80	1.84	1.86	1.90	1.38	1.65	1.87
Broad Bean (dry, intercrop, green)	Old Land	1.15	1.21	1.21	1.18	1.19	1.11	1.16	1.11	1.25
	New Land	1.07	1.13	0.97	0.77	0.96	1.18	0.85	1.01	1.00
	Total	1.14	1.20	1.19	1.15	1.17	1.11	1.11	1.10	1.20
Lentil	Old Land		0.78	1.00			0.67	0.88	0.67	
	New Land		0.00	0.00			0.00	0.00	0.00	
	Total	0.00	0.78	1.00	0.00	0.00	0.67	0.88	0.67	0.00
Fenugreek (dry)	Old Land	1.02	0.99	1.03	1.01	1.00	0.94	0.96	1.02	1.02
	New Land	0.99	0.00	0.82	0.77	0.81	0.94	0.86	0.96	1.03
	Total	1.02	0.99	1.00	0.99	0.96	0.94	0.95	1.01	1.02
Chicpea	Old Land	0.93	0.96	0.91	0.85	0.86	0.90	0.90	4.90	0.80
	New Land	0.00	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00
	Total	0.93	0.96	0.91	0.85	0.86	0.90	0.90	4.90	0.80
Lupine	Old Land	1.03	1.04	1.01	0.94	1.00	1.05	9.45	1.26	1.37
	New Land	0.80	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	1.02	1.03	1.01	0.94	1.00	1.05	9.45	1.26	1.37
Onion	Old Land	10.16	9.67	9.93	10.65	12.52	16.06	12.37	10.15	16.26
	New Land	37.22	10.56	10.54	10.52	9.14	9.75	10.08	13.90	10.99
	Total	24.55	10.31	10.33	10.60	11.26	13.20	10.36	12.87	12.93
Garlic	Old Land	10.08	10.06	9.96	10.05	9.75	8.58	9.65	10.06	9.90
	New Land	16.67	0.00	6.33	6.33	7.67	5.00	0.00	9.00	0.00
	Total	10.08	10.06	9.96	10.05	9.64	8.58	9.65	10.06	9.90
Sugar beet	Old Land	27.54	26.31	29.61	29.70	29.63	27.11	28.36	28.53	28.51
	New Land	20.40	0.00	0.00	29.70	26.95	16.40	17.24	22.40	19.78
	Total	26.30	26.31	29.61	29.70	29.43	25.97	26.98	28.01	28.03
Potatoes	Old Land									
	New Land									
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tomato	Old Land	16.18	16.51	16.85	18.48	20.11	15.01	16.69	17.15	16.83
	New Land	16.65	16.60	15.00	15.09	15.00	0.00	16.11	17.09	17.18
	Total	16.37	16.53	16.16	17.33	18.45	15.01	16.27	17.12	17.03
Other vegetable	Old Land	0.00	0.00	0.00	0.00	0.00	0.00	51.42	0.00	
	New Land	0.00	0.00	0.00	0.00	0.00	0.00	89.08	0.00	
	Total	0.00	0.00	0.00	0.00	0.00	0.00	72.71	0.00	0.00
Other crops	Old Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	New Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	Old Land	12.29	12.14	11.15	10.27	11.68	11.43	11.37	10.53	11.74
	New Land	8.59	7.87	10.64	12.30	9.30	6.95	11.94	7.89	9.38
	Total	12.04	11.77	11.12	10.41	11.46	11.09	11.47	10.23	11.54

Cropped Area (fed) Summer Crop

Governorate	Land	Minya							
		2003	2004	2005	2006	2007	2008	2009	2010
Rice	Old Land		10		36				
	New Land		0		0				
	Total	0	10	0	36	0	0	0	0
Maize (White)	Old Land	226,015	229,145	261,041	256,866	251,852	281,126	274,302	241,007
	New Land	8,018	8,459	10,283	8,118	5,712	8,029	18,888	5,408
	Total	234,033	237,604	271,324	264,984	257,564	289,155	293,190	246,415
Maize (Corn)	Old Land	5,518	2,901	2,881	3,131	6,203	10,688	7,727	12,798
	New Land	0	6	50	0	341	1,718	4,412	0
	Total	5,518	2,907	2,931	3,131	6,544	12,406	12,139	12,798
Sorghum	Old Land	8,132	6,534	9,855	14,093	10,970	8,547	7,743	10,520
	New Land	679	2,595	251	400	255	649	862	925
	Total	8,811	9,129	10,106	14,493	11,225	9,196	8,605	11,445
Soy bean	Old Land	15,619	25,646	15,251	13,704	14,199	15,506	13,032	24,853
	New Land	67	73	0	30	0	6	8	0
	Total	15,686	25,719	15,251	13,734	14,199	15,512	13,040	24,853
Peanut	Old Land	4,437	4,291	5,157	6,467	8,528	5,893	5,209	11,649
	New Land	7,303	10,785	7,764	5,704	6,461	5,601	9,994	7,192
	Total	11,740	15,076	12,921	12,171	14,989	11,494	15,203	18,841
Sesame	Old Land	5,214	3,325	5,125	6,970	4,373	3,274	4,747	6,327
	New Land	4,825	8,001	4,712	3,786	4,453	3,215	8,333	6,109
	Total	10,039	11,326	9,837	10,756	8,826	6,489	13,080	12,436
Sunflower	Old Land	3,814	3,803	3,302	4,356	2,647	2,288	1,883	5,841
	New Land	363	367	0			38	42	105
	Total	4,177	4,170	3,302	4,356	2,647	2,326	1,925	5,946
Summer Onion	Old Land	0	0	0	0	0	0	0	0
	New Land	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0
Summer potatoes	Old Land	3,501	4,467	6,211	4,056	4,937	6,467	6,405	6,235
	New Land	0	0	0	0	0	0	0	0
	Total	3,501	4,467	6,211	4,056	4,937	6,467	6,405	6,235
Summer Tomato	Old Land	6,166	8,452	6,833	8,233	9,357	8,875	7,480	7,655
	New Land	100	0	0	0	0	0	6,175	1,176
	Total	6,266	8,452	6,833	8,233	9,357	8,875	13,655	8,831
Other vegetables	Old Land	23,814	16,240	20,728	25,216	23,755	16,730	16,311	16,547
	New Land	3,350	1,815	3,611	6,581	6,995	6,910	9,947	3,787
	Total	27,164	18,055	24,339	31,797	30,750	23,640	26,258	20,334
Other Crops	Old Land	1,767	3,038	1,713	2,345	3,890	2,126	4,139	4,538
	New Land	0		585	0	0	2,910	4,902	380
	Total	1,767	3,038	2,298	2,345	3,890	5,036	9,041	4,918
Total	Old Land	303,997	307,852	338,097	345,473	340,711	361,520	348,978	347,970
	New Land	24,705	32,101	27,256	24,619	24,217	29,076	63,563	25,082
	Total	328,702	339,953	365,353	370,092	364,928	390,596	412,541	373,052

Crop Production (t) Summer Crop

Governorate	Land	Minya							
		2003	2004	2005	2006	2007	2008	2009	2010
Rice	Old Land	0	32	0	98	0	0	0	0
	New Land	0	0	0	0	0	0	0	0
	Total	0	32	0	98	0	0	0	0
Maize (White)	Old Land	805,075	765,377	898,521	930,769	847,679	963,101	902,069	700,125
	New Land	24,754	24,968	30,966	23,006	18,457	26,271	51,443	16,392
	Total	829,829	790,345	929,487	953,775	866,136	989,372	953,512	716,517
Maize (Corn)	Old Land	17,319	9,317	9,624	10,152	19,732	35,029	28,381	0
	New Land	0	18	157		1,064	5,631	11,743	0
	Total	17,319	9,335	9,781	10,152	20,796	40,660	40,124	0
Sorghum	Old Land	18,815	16,171	27,125	32,762	28,504	21,536	18,866	25,383
	New Land	1,513	6,412	660	929	544	1,636	1,819	2,209
	Total	20,328	22,583	27,785	33,691	29,048	23,172	20,685	27,592
Soy bean	Old Land	23,070	31,789	19,052	17,074	19,252	21,955	20,409	29,717
	New Land	99	62	0	25	0	8	8	0
	Total	23,169	31,851	19,052	17,099	19,252	21,963	20,417	29,717
Peanut	Old Land	4,909	4,804	6,078	7,921	10,656	7,358	6,109	14,148
	New Land	9,167	13,561	9,779	7,401	8,425	7,256	11,886	8,671
	Total	14,076	18,365	15,857	15,322	19,081	14,614	17,995	22,819
Sesame	Old Land	3,508	2,239	3,475	4,746	3,018	2,176	3,057	4,147
	New Land	2,978	5,089	3,250	2,753	3,307	2,324	4,285	3,619
	Total	6,486	7,328	6,725	7,499	6,325	4,500	7,342	7,766
Sunflower	Old Land	3,801	3,920	3,612	5,059	3,192	2,840	1,968	7,231
	New Land	348	359	0			49	45	105
	Total	4,149	4,279	3,612	5,059	3,192	2,889	2,013	7,336
Summer Onion	Old Land	0	0	0	0	0	0	0	0
	New Land	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0
Summer potatoes	Old Land	29,546	37,900	55,939	38,472	47,203	59,636	58,325	61,569
	New Land	0	0	0	0	0	0	0	0
	Total	29,546	37,900	55,939	38,472	47,203	59,636	58,325	61,569
Summer Tomato	Old Land	77,865	116,397	100,405	122,443	141,723	142,403	126,713	121,805
	New Land	2,000	0	0				102,384	18,699
	Total	79,865	116,397	100,405	122,443	141,723	142,403	229,097	140,504
Other vegetables	Old Land	0	0	0	0	0	0	0	0
	New Land	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0
Other Crops	Old Land	0	0	0	0	0	0	0	0
	New Land	0	0	0	0	0	0	0	0
	Total	0	0	0	0	0	0	0	0
Total	Old Land	983,908	987,946	1,123,831	1,169,496	1,120,959	1,256,034	1,165,897	964,125
	New Land	40,859	50,469	44,812	34,114	31,797	43,175	183,613	49,695
	Total	1,024,767	1,038,415	1,168,643	1,203,610	1,152,756	1,299,209	1,349,510	1,013,820

Crop Yield (t/fed) Summer Crop

Crop	Land	Minya							
		2003	2004	2005	2006	2007	2008	2009	2010
Rice	Old Land		3.20		2.72				
	New Land								
	Total	0.00	3.20	0.00	2.72	0.00	0.00	0.00	0.00
Maize (white)	Old Land	3.56	3.34	3.44	3.62	3.37	3.43	3.29	2.90
	New Land	3.09	2.95	3.01	2.83	3.23	3.27	2.72	3.03
	Total	3.55	3.33	3.43	3.60	3.36	3.42	3.25	2.91
Maize (corn)	Old Land		3.21	3.34	3.24	3.18	3.28	3.67	0.00
	New Land		3.00	3.14		3.12	3.28	2.66	
	Total		3.21	3.34	3.24	3.18	3.28	3.31	0.00
Sorghum	Old Land	2.31	2.47	2.75	2.32	2.60	2.52	2.44	2.41
	New Land	2.23	2.47	2.63	2.32	2.13	2.52	2.11	2.39
	Total	2.31	2.47	2.75	0.00	0.00	2.52	2.40	2.41
Soybean	Old Land	1.48	1.24	1.25	1.25	1.36	1.42	1.57	1.20
	New Land	1.48	0.85		0.83		1.33	1.00	
	Total	1.48	1.24	1.25	1.25	1.36	1.42	1.57	1.20
Peanut	Old Land	1.11	1.12	1.18	1.22	1.25	1.25	1.17	1.21
	New Land	1.26	1.26	1.26	1.30	1.30	1.30	1.19	1.21
	Total	1.20	1.22	1.23	1.26	1.27	1.27	1.18	1.21
Sesame	Old Land	0.67	0.67	0.68	0.68	0.69	0.66	0.64	0.66
	New Land	0.62	0.64	0.69	0.73	0.74	0.72	0.51	0.59
	Total	0.65	0.65	0.68	0.70	0.72	0.69	0.56	0.62
Sunflower	Old Land	1.00	1.03	1.09	1.16	1.21	1.24	1.05	1.24
	New Land	0.96	0.98				1.29	1.07	1.00
	Total	0.99	1.03	1.09	1.16	1.21	1.24	1.05	1.23
Summer onion	Old Land								
	New Land								
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Summer Potatoes	Old Land	8.44	8.48	9.01	9.49	9.56	9.22	9.11	9.87
	New Land								
	Total	8.44	8.48	9.01	9.49	9.56	9.22	9.11	9.87
Summer tomato	Old Land	12.63	13.77	14.69	14.87	15.15	16.05	16.94	15.91
	New Land	20.00						16.58	15.90
	Total	12.75	13.77	14.69	14.87	15.15	16.05	16.78	15.91
Other vegetables	Old Land								
	New Land								
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other crops	Old Land								
	New Land								
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	Old Land	3.24	3.21	3.32	3.39	3.29	3.47	3.34	2.77
	New Land	1.65	1.57	1.64	1.39	1.31	1.48	2.89	1.98
	Total	3.12	3.05	3.20	3.16	3.08	3.33	3.27	2.72

Cropped Area 2005(fed) Nile Crop

Crop	Land	Minya							
		2003	2004	2005	2006	2007	2008	2009	2010
Maize	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Sorghum	Old Land		2,595						
	New Land		0						
	Total	0	2,595	0	0	0	0	0	0
Rice	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Nile Onion	Old Land	4,971	5,262	3,133	5,328	9,163	7,191	7,487	6,155
	New Land	1,020	500	100	55	369	300	1,620	1,547
	Total	5,991	5,762	3,233	5,383	9,532	7,491	9,107	7,702
Corn	Old Land		2,901						
	New Land		6						
	Total	0	2,907	0	0	0	0	0	0
Nile Potatoes	Old Land	16,229	25,731	20,492	20,411	28,758	27,474	29,337	29,643
	New Land	0	0	0					
	Total	16,229	25,731	20,492	20,411	28,758	27,474	29,337	29,643
Nile Tomato	Old Land	885	1,099	552	1,168	879	5,757	248	
	New Land	0	0	0					
	Total	885	1,099	552	1,168	879	5,757	248	0
Other Vegetables	Old Land	3,230	430	2,721	5,174	5,705	4,609	148	
	New Land	0		0					
	Total	3,230	430	2,721	5,174	5,705	4,609	148	0
Other Crops	Old Land		61	144	79	456	305	355	283
	New Land			0					
	Total	0	61	144	79	456	305	355	283
Total	Old Land	25,315	38,079	27,042	32,160	44,961	45,336	37,575	36,081
	New Land	1,020	506	100	55	369	300	1,620	1,547
	Total	26,335	38,585	27,142	32,215	45,330	45,636	39,195	37,628

Crop Production (t) Nile Crop

Crop	Land	Minya							
		2003	2004	2005	2006	2007	2008	2009	2010
Nile Maize	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Nile Sorghum	Old Land		5,456						
	New Land		0						
	Total	0	5,456	0	0	0	0	0	0
Rice	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Nile Onion	Old Land	48,411	53,895	32,778	58,655	89,039	72,579	83,238	72,151
	New Land	11,060	5,200	800	428	2,948	3,600	17,803	19,619
	Total	59,471	59,095	33,578	59,083	91,987	76,179	101,041	91,770
Corn	Old Land		9,317						
	New Land		18						
	Total	0	9,335	0	0	0	0	0	0
Nile Potato	Old Land	113,090	183,002	158,517	177,357	244,281	247,485	255,450	234,760
	New Land	0		0					
	Total	113,090	183,002	158,517	177,357	244,281	247,485	255,450	234,760
Nile Tomato	Old Land	9,471	12,509	6,580	15,913	16,456	98,509	3,720	
	New Land	0	0	0					
	Total	9,471	12,509	6,580	15,913	16,456	98,509	3,720	0
Other Vegetables	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Other Crops	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Total	Old Land	170,972	264,179	197,875	251,925	349,776	418,573	342,408	306,911
	New Land	11,060	5,218	800	428	2,948	3,600	17,803	19,619
	Total	182,032	269,397	198,675	252,353	352,724	422,173	360,211	326,530

Crop Yield (t/fed) Nile Crop

Crop	Land	Minya							
		2003	2004	2005	2006	2007	2008	2009	2010
Maize	Old Land								
	New Land								
	Total								
Sorghum	Old Land		2.10						
	New Land								
	Total		2.10						
Rice	Old Land								
	New Land								
	Total								
Nile onion	Old Land	9.74	10.24	10.46	11.01	9.72	10.09	11.12	11.72
	New Land	10.84	10.40	8.00	7.78	7.99	12.00	10.99	12.68
	Total	9.93	10.26	10.39	10.98	9.65	10.17	11.09	11.92
Corn	Old Land		3.21						
	New Land		3.00						
	Total		3.21						
Nile potatoes	Old Land	6.97	7.11	7.74	8.69	8.49	9.01	8.71	7.92
	New Land								
	Total	6.97	7.11	7.74	8.69	8.49	9.01	8.71	7.92
Nile tomato	Old Land	10.70	11.38	11.92	13.62	18.72	17.11	15.00	
	New Land								
	Total	10.70	11.38	11.92	13.62	18.72	17.11	15.00	
Other vegetable	Old Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	New Land								
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Other crop	Old Land		0.00	0.00	0.00	0.00	0.00	0.00	0.00
	New Land								
	Total		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	Old Land	6.75	6.94	7.32	7.83	7.78	9.23	9.11	8.51
	New Land	10.84	10.31	8.00	7.78	7.99	12.00	10.99	12.68
	Total	6.91	6.98	7.32	7.83	7.78	9.25	9.19	8.68

Cropped Area (fed) Permanent Crop

Crop	Land	Minya							
		2003	2004	2005	2006	2007	2008	2009	2010
Sugar cane	Old Land	37,837	38,949	38,275	38,850	39,263	37,568	37,527	38,536
	New Land	246	176	231	230	232	300	36	233
	Total	38,083	39,125	38,506	39,080	39,495	37,868	37,563	38,769
Cotton	Old Land	33,612	37,194	33,961	17,938	26,409	9,651	4,122	1,847
	New Land	0	0	0	0	0	0	0	0
	Total	33,612	37,194	33,961	17,938	26,409	9,651	4,122	1,847
Orchards	Old Land	28,881	28,599	28,533	28,701	28,686	28,588	25,502	25,747
	New Land	282	200	30	454	1,729	1,616	3,838	3,867
	Total	29,163	28,799	28,563	29,155	30,415	30,204	29,340	29,614
Palms	Old Land	751	694	734	737	707	707	602	619
	New Land	0	0	0	0	0	0	0	0
	Total	751	694	734	737	707	707	602	619
Alfalfa	Old Land	163	149	223	193	687	701	2,054	1,583
	New Land	0	0	0	0	0	355	975	
	Total	163	149	223	193	687	1,056	3,029	1,583
Total	Old Land	101,244	105,585	101,726	86,419	95,752	77,215	69,807	68,332
	New Land	528	376	261	684	1,961	2,271	4,849	4,100
	Total	101,772	105,961	101,987	87,103	97,713	79,486	74,656	72,432

Crop production (t) Permanent Crop

Crop	Land	Minya							
		2003	2004	2005	2006	2007	2008	2009	2010
Sugar cane	Old Land	1,905,451	1,992,556	1,933,345	1,958,496	1,949,399	1,816,265	1,698,664	1,894,342
	New Land	9,857	7,555	9,860	8,244	8,614	10,973	1,512	9,414
	Total	1,915,308	2,000,111	1,943,205	1,966,740	1,958,013	1,827,238	1,700,176	1,903,756
Cotton	Old Land	211,809	187,732	168,263	136,470	193,049	8,708		1,854
	New Land	0	0	0	0	0	0		
	Total	211,809	187,732	168,263	136,470	193,049	8,708	4,715	1,854
Orchards	Old Land	145,611	162,545	205,192	173,603	179,412	194,360	171,040	173,578
	New Land	0	120	90	180	185	1,066	14,117	15,911
	Total	145,611	162,665	205,282	173,783	179,597	195,426	185,157	189,489
Palms	Old Land	41,639	40,888	32,904	44,698	37,123	42,270	42,594	34,257
	New Land	0	0	0	0	0	0	0	0
	Total	41,639	40,888	32,904	44,698	37,123	42,270	42,594	34,257
Alfalfa	Old Land	9,535	10,095	15,205	13,295	50,748	51,640	152,810	112,975
	New Land	0	0	0	0	0	0	48,750	
	Total	9,535	10,095	15,205	13,295	50,748	51,640	201,560	112,975
Total	Old Land	2,314,045	2,393,816	2,354,909	2,326,562	2,409,731	2,113,243	2,065,108	2,217,006
	New Land	9,857	7,675	9,950	8,424	8,799	12,039	64,379	25,325
	Total	2,323,902	2,401,491	2,364,859	2,334,986	2,418,530	2,125,282	2,129,487	2,242,331

Crop Yield (t/fed) Permanent Crop

Crop	Land	Minya							
		2003	2004	2005	2006	2007	2008	2009	2010
Sugar cane	Old Land	50.36	51.16	50.51	50.41	49.65	48.35	45.27	49.16
	New Land	40.07	42.93	42.68	35.84	37.13	36.58	42.00	40.40
	Total	50.29	51.12	50.46	50.33	49.58	48.25	45.26	49.11
Cotton	Old Land	6.30	5.05	4.95	7.61	7.31	0.90	0.00	1.00
	New Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	6.30	5.05	4.95	7.61	7.31	0.90	1.14	1.00
Orchards	Old Land	5.04	5.68	7.19	6.05	6.25	6.80	6.71	6.74
	New Land	0.00	0.60	3.00	0.40	0.11	0.66	3.68	4.11
	Total	4.99	5.65	7.19	5.96	5.90	6.47	6.31	6.40
Palms	Old Land	55.44	58.92	44.83	60.65	52.51	59.79	70.75	55.34
	New Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	55.44	58.92	44.83	60.65	52.51	59.79	70.75	55.34
Alfalfa	Old Land	58.50	67.75	68.18	68.89	73.87	73.67	74.40	71.37
	New Land	0.00	0.00	0.00	0.00	0.00	0.00	50.00	0.00
	Total	58.50	67.75	68.18	68.89	73.87	48.90	66.54	71.37
Total	Old Land	22.86	22.67	23.15	26.92	25.17	27.37	29.58	32.44
	New Land	18.67	20.41	38.12	12.32	4.49	5.30	13.28	6.18
	Total	22.83	22.66	23.19	26.81	24.75	26.74	28.52	30.96

Winter Vegetable Cropped Area (fed)

Crop	Land	Minya								
		2003	2004	2005	2006	2007	2008	2009	2010	2011
Tomato	Old Land	10,748	14,026	9,714	15,744	13,816	15,786	6,080	6,455	5,225
	New Land	7,100	5,450	5,835	8,080	6,640	0	15,644	8,693	6,709
	Total	17,848	19,476	15,549	23,824	20,456	15,786	21,724	15,148	11,934
Squash	Old Land	324	30	229	13	480	197	169	171	186
	New Land	70	98		0		0	150	90	
	Total	394	128	229	13	480	197	319	261	186
Green Beans	Old Land	26	4	128	259	358	13	66	31	53
	New Land	150			0		0		43	73
	Total	176	4	128	259	358	13	66	74	126
Green Kidney beans	Old Land	0	167	53	54	321	149	74	225	210
	New Land	0			0		0		0	0
	Total	0	167	53	54	321	149	74	225	210
green peas	Old Land	539	822	386	575	697	144	196	361	250
	New Land	775	735	600	490	2,981	0	1,135	330	417
	Total	1,314	1,557	986	1,065	3,678	144	1,331	691	667
Cabbage	Old Land	361	578	428	694	588	703	256	926	387
	New Land	170	175		0		0	32	12	
	Total	531	753	428	694	588	703	288	938	387
Caulifllower	Old Land	128	161	228	80	197	47	39	43	11
	New Land	180	85		0		0		0	
	Total	308	246	228	80	197	47	39	43	11
Eggplant	Old Land	201	158	413	438	717	687	151	286	268
	New Land	0	465		0		0	390	257	286
	Total	201	623	413	438	717	687	541	543	554
pepper	Old Land	35	348	16	220	84	52	285	165	308
	New Land	140	440	530	110	560	155	828	397	107
	Total	175	788	546	330	644	207	1,113	562	415
Jews mallow	Old Land	878	678	382	1,271	1,061	820	569	757	649
	New Land	0			0		0		0	0
	Total	878	678	382	1,271	1,061	820	569	757	649
Spinach	Old Land	42		10	13		15		3	
	New Land	0			0		0		0	0
	Total	42	0	10	13	0	15	0	3	0
Artichoke	Old Land	0			0		0			
	New Land	0			0		0		0	0
	Total	0	0	0	0	0	0	0	0	0
Taro	Old Land	117	29	21	45	106	88	57	91	48
	New Land	0			0		0		0	0
	Total	117	29	21	45	106	88	57	91	48
Raddish	Old Land	5	5	5		13	15	45	125	22
	New Land	0					0		0	0
	Total	5	5	5	0	13	15	45	125	22
Turnip	Old Land	6	5	5	17		0			
	New Land	0			0		0		0	0
	Total	6	5	5	17	0	0	0	0	0
Lettuce	Old Land	17	26	165	1	40	0	8	5	
	New Land	150	62		0		0		0	0
	Total	167	88	165	1	40	0	8	5	0
Carrot	Old Land	334	773	581	662	850	387	291	726	513
	New Land	85			0		0	0	0	0
	Total	419	773	581	662	850	387	291	726	513
Parsley	Old Land	13	14	15	23	2	7	11	8	
	New Land	76	40		0		0	0	0	0
	Total	89	54	15	23	2	7	11	8	0
Rocket	Old Land	17	17	58	16	35	24	51	82	35
	New Land	0			0		0		0	0
	Total	17	17	58	16	35	24	51	82	35
Egyptian Leek	Old Land	13	2	64	15	26	19	46	86	16
	New Land	55			0		0	0	0	0
	Total	68	2	64	15	26	19	46	86	16
Sweet Potato	Old Land	5			0		0		13	
	New Land	0			0		0		0	0
	Total	5	0	0	0	0	0	0	13	0
Strawberry	Old Land	0			0		0			
	New Land	0			0		0		0	0
	Total	0	0	0	0	0	0	0	0	0
Dill	Old Land	7	19	103	0		0	5		
	New Land	0			0		0		0	0
	Total	7	19	103	0	0	0	5	0	0
Green Corriander	Old Land	0			0		0			
	New Land	0			0		0		0	0
	Total	0	0	0	0	0	0	0	0	0
Egyptian mallow	Old Land	0			0		0		757	
	New Land	0			0		0		0	0
	Total	0	0	0	0	0	0	0	757	0
Cucumber	Old Land	1,637		17	0		79			
	New Land	0			1,395		450	490	0	0
	Total	1,637	0	17	1,395	0	529	490	0	0
Chard	Old Land	0			0		0			
	New Land	0			0		0		0	0
	Total	0	0	0	0	0	0	0	0	0
Beet	Old Land	0			0		0			
	New Land	0			0		0		0	0
	Total	0	0	0	0	0	0	0	0	0
Pumpkin	Old Land	0			0		0			
	New Land	0			0		0		0	0
	Total	0	0	0	0	0	0	0	0	0
Celery	Old Land	0			0		0			
	New Land	0			0		0		0	0
	Total	0	0	0	0	0	0	0	0	0
Total	Old Land	15,453	17,862	13,021	20,140	19,391	19,232	8,399	11,316	8,181
	New Land	8,951	7,550	6,965	10,075	10,181	605	18,669	9,822	7,592
	Total	24,404	25,412	19,986	30,215	29,572	19,837	27,068	21,138	15,773

Winter Vegetable Crop Production (t)

Crop	Land	Minya								
		2003	2004	2005	2006	2007	2008	2009	2010	2011
Tomato	Old Land	173,888	231,511	163,689	290,898	277,900	236,959	101,500	110,717	87,912
	New Land	118,215	90,470	87,525	121,945	99,600	0	252,039	148,569	115,275
	Total	292,103	321,981	251,214	412,843	377,500	236,959	353,539	259,286	203,187
Squash	Old Land	2,791	244	2,044	117	4,734	1,526	1,327	1,347	1,611
	New Land	350	539		0		0	1,185	720	
	Total	3,141	783	2,044	117	4,734	1,526	2,512	2,067	1,611
Green Beans	Old Land	147	24	657	1,726	2,624	69	377	186	293
	New Land	450	0	0	0	0	0	0	323	271
	Total	597	24	657	1,726	2,624	69	377	509	564
Green Kidny Beans	Old Land	0	844	424	459	2,817	1,096	555	1,688	1,070
	New Land	0	0	0	0	0	0	0	0	0
	Total	0	844	424	459	2,817	1,096	555	1,688	1,070
Green Peas	Old Land	2,704	5,105	2,214	3,930	4,908	702	873	2,299	1,028
	New Land	3,875	3,675	1,800	2,450	8,943	0	5,197	1,767	1,407
	Total	6,579	8,780	4,014	6,380	13,851	702	6,070	4,066	2,435
Cabbage	Old Land	3,475	5,671	4,313	6,997	5,688	6,946	2,482	8,534	3,842
	New Land	1,122	1,400	0	0	0	0	314	120	0
	Total	4,597	7,071	4,313	6,997	5,688	6,946	2,796	8,654	3,842
Cauliflower	Old Land	1,205	1,374	2,191	773	1,835	564	474	541	143
	New Land	1,692	765		0		0		0	0
	Total	2,897	2,139	2,191	773	1,835	564	474	541	143
Eggplant	Old Land	1,542	1,268	2,919	3,769	6,777	5,734	1,278	2,435	2,593
	New Land	0	3,255		0		0	3,390	2,297	1,798
	Total	1,542	4,523	2,919	3,769	6,777	5,734	4,668	4,732	4,391
Pepper	Old Land	188	2,114	96	1,599	601	480	1,830	1,040	2,301
	New Land	700	2,640	1,590	440	1,680	465	3,430	3,336	479
	Total	888	4,754	1,686	2,039	2,281	945	5,260	4,376	2,780
Jews Mallow	Old Land	7,547	5,785	3,325	11,227	9,503	6,481	4,581	6,037	4,968
	New Land	0			0		0		0	0
	Total	7,547	5,785	3,325	11,227	9,503	6,481	4,581	6,037	4,968
Spinach	Old Land	260		62	85		90		18	
	New Land	0			0		0		0	
	Total	260	0	62	85	0	90	0	18	0
Artichoke	Old Land	0								
	New Land	0							0	0
	Total	0	0	0	0	0	0	0	0	0
Taro	Old Land	1,232	294	215	508	1,306	1,053	690	1,187	594
	New Land	0			0		0		0	0
	Total	1,232	294	215	508	1,306	1,053	690	1,187	594
Radish	Old Land	30		35		65	45	144	406	22
	New Land	0		0		0	0	0	0	0
	Total	30	0	35	0	65	45	144	406	22
Turnip	Old Land	59	40	40	153					
	New Land	0	0	0	0					
	Total	59	40	40	153	0	0	0	0	0
Lettuce	Old Land	121	208	1,400	9	360		56	35	
	New Land	1,050	465		0				0	0
	Total	1,171	673	1,400	9	360	0	56	35	0
Carrot	Old Land	4,001	8,763	6,758	8,237	10,198	3,911	2,968	7,566	4,580
	New Land	1,020			0		0	0	0	0
	Total	5,021	8,763	6,758	8,237	10,198	3,911	2,968	7,566	4,580
Parsley	Old Land	79	63	75	133	15	40	64	48	
	New Land	464	200		0		0		0	0
	Total	543	263	75	133	15	40	64	48	0
Rocket	Old Land	95	94	349	107	245	69	151	245	103
	New Land	0			0		0		0	0
	Total	95	94	349	107	245	69	151	245	103
Egyptian Leek	Old Land	90	16	517	135	241	80	211	396	16
	New Land	380			0		0		0	0
	Total	470	16	517	135	241	80	211	396	16
Sweet potato	Old Land	35							133	
	New Land	0							0	
	Total	35	0	0	0	0	0	0	133	0
Strawberry	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Dill	Old Land	14	70	415				25		
	New Land	0								
	Total	14	70	415	0	0	0	25	0	0
Green coriander	Old Land									
	New Land								0	0
	Total	0	0	0	0	0	0	0	0	0
Egyptian mallow	Old Land								6,037	
	New Land								0	0
	Total	0	0	0	0	0	0	0	6,037	0
Cucumber	Old Land	16,865		134	0		625			
	New Land	0			6,975		1,350	3,920		
	Total	16,865	0	134	6,975	0	1,975	3,920	0	0
Chard	Old Land	0								
	New Land	0								
	Total	0	0	0	0	0	0	0	0	0
Beet	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Pumpkin	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Celery	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Total	Old Land	216,368	263,488	191,872	330,862	329,817	266,470	119,586	150,895	111,076
	New Land	129,318	103,409	90,915	131,810	110,223	1,815	269,475	157,132	119,230
	Total	345,686	366,897	282,787	462,672	440,040	268,285	389,061	308,027	230,306

Winter Vegetable Crop Yield (t/fed)

Crop	Land	Minya								
		2003	2004	2005	2006	2007	2008	2009	2010	2011
Tomato	Old Land	16.18	16.51	16.85	18.48	20.11	15.01	16.69	17.15	16.83
	New Land	16.65	16.60	15.00	15.09	15.00		16.11	17.09	17.18
	Total	16.37	16.53	16.16	17.33	18.45	15.01	16.27	17.12	17.03
Squash	Old Land	8.61	8.13	8.93	9.00	9.86	7.75	7.85	7.88	8.66
	New Land	5.00	5.50					7.90	8.00	
	Total	7.97	6.12	8.93	9.00	9.86	7.75	7.87	7.92	8.66
Green beans	Old Land	5.65	6.00	5.13	6.66	7.33	5.31	5.71	6.00	5.53
	New Land	3.00							7.51	3.71
	Total	3.39	6.00	5.13	6.66	7.33	5.31	5.71	6.88	4.48
Green kidney beans	Old Land		5.05	8.00	8.50	8.78	7.36	7.50	7.50	5.10
	New Land									
	Total		5.05	8.00	8.50	8.78	7.36	7.50	7.50	5.10
Green peas	Old Land	5.02	6.21	5.74	6.83	7.04	4.88	4.45	6.37	4.11
	New Land	5.00	5.00	3.00	5.00	3.00		4.58	5.35	3.37
	Total	5.01	5.64	4.07	5.99	3.77	4.88	4.56	5.88	3.65
Cabbage	Old Land		9.81	10.08	10.08	9.67	9.88	9.70	9.22	9.93
	New Land		8.00					9.81	10.00	
	Total		9.39	10.08	10.08	9.67	9.88	9.71	9.23	9.93
Cauliflower	Old Land	9.41	8.53	9.61	9.66	9.31	12.00	12.15	12.58	13.00
	New Land	9.40	9.00							
	Total	9.41	8.70	9.61	9.66	9.31	12.00	12.15	12.58	13.00
Eggplant	Old Land	7.67	8.03	7.07	8.61	9.45	8.35	8.46	8.51	9.68
	New Land		7.00					8.69	8.94	6.29
	Total	7.67	7.26	7.07	8.61	9.45	8.35	8.63	8.71	7.93
Pepper	Old Land	5.37	6.07	6.00	7.27	7.15	9.23	6.42	6.30	7.47
	New Land	5.00	6.00	3.00	4.00	3.00	3.00	4.14	8.40	4.48
	Total	5.07	6.03	3.09	6.18	3.54	4.57	4.73	7.79	6.70
Jews mallow	Old Land	8.60	8.53	8.70	8.83	8.96	7.90	8.05	7.97	7.65
	New Land									
	Total	8.60	8.53	8.70	8.83	8.96	7.90	8.05	7.97	7.65
Spinach	Old Land	6.19		6.20	6.54		6.00		6.00	
	New Land									
	Total	6.19		6.20	6.54		6.00		6.00	
Artichoke	Old Land									
	New Land									
	Total									
Taro	Old Land	10.53	10.14	10.24	11.29	12.32	11.97	12.11	13.04	12.38
	New Land									
	Total	10.53	10.14	10.24	11.29	12.32	11.97	12.11	13.04	12.38
Radish	Old Land	6.00	0.00	7.00		5.00	3.00	3.20	3.25	1.00
	New Land									
	Total	6.00	0.00	7.00		5.00	3.00	3.20	3.25	1.00
Turnip	Old Land	9.83	8.00	8.00	9.00					
	New Land									
	Total	9.83	8.00	8.00	9.00					
Lettuce	Old Land	7.12	8.00	8.48	9.00	9.00		7.00	7.00	
	New Land	7.00	7.50							
	Total	7.01	7.65	8.48	9.00	9.00		7.00	7.00	
Carrot	Old Land	11.98	11.34	11.63	12.44	12.00	10.11	10.20	10.42	8.93
	New Land	12.00								
	Total	11.98	11.34	11.63	12.44	12.00	10.11	10.20	10.42	8.93
Parsley	Old Land	6.08	4.50	5.00	5.78	7.50	5.71	5.82	6.00	
	New Land	6.11	5.00							
	Total	6.10	4.87	5.00	5.78	7.50	5.71	5.82	6.00	
Rocket	Old Land	5.59	5.53	6.02	6.69	7.00	2.88	2.96	2.99	2.94
	New Land									
	Total	5.59	5.53	6.02	6.69	7.00	2.88	2.96	2.99	2.94
Egyptian leek	Old Land	6.92	8.00	8.08	9.00	9.27	4.21	4.59	4.60	1.00
	New Land	6.91								
	Total	6.91	8.00	8.08	9.00	9.27	4.21	4.59	4.60	1.00
Sweet potato	Old Land	7.00							10.23	
	New Land									
	Total	7.00							10.23	
Straw berry	Old Land									
	New Land									
	Total									
Dill	Old Land	2.00	3.68	4.03				5.00		
	New Land									
	Total	2.00	3.68	4.03				5.00		
Green coriander	Old Land									
	New Land									
	Total									
Egyptian mallow	Old Land								7.97	
	New Land									
	Total								7.97	
Cucumber	Old Land	10.30		7.88			7.91			
	New Land				5.00		3.00	8.00		
	Total	10.30		7.88	5.00		3.73	8.00		
Chard	Old Land									
	New Land									
	Total									
Beet	Old Land									
	New Land									
	Total									
Pumpkin	Old Land									
	New Land									
	Total									
Celery	Old Land									
	New Land									
	Total									
Total	Old Land	14.00	14.75	14.74	16.43	17.01	13.86	14.24	13.33	13.58
	New Land	14.45	13.70	13.05	13.08	10.83	3.00	14.43	16.00	15.70
	Total	14.17	14.44	14.15	15.31	14.88	13.52	14.37	14.57	14.60

Summer Vegetable Cropped Area (fed)

Crop	Land	Minya							
		2003	2004	2005	2006	2007	2008	2009	2010
Tomato	Old Land	6166	8452	6833	8233	9357	8875	7480	7655
	New Land	100		0				6,175	1,176
	Total	6,266	8,452	6,833	8,233	9,357	8,875	13,655	8,831
Squash	Old Land	227	489	90	764	184	352	107	96
	New Land	0		0					
	Total	227	489	90	764	184	352	107	96
Green Beans	Old Land	105	315	132	357	306	277	39	
	New Land	0		0					
	Total	105	315	132	357	306	277	39	0
Green kidney beans	Old Land	213	76	454	356	509	148	39	164
	New Land	285	345	0				40	
	Total	498	421	454	356	509	148	79	164
Dry kidney beans	Old Land	0		0					
	New Land	0		0					
	Total	0	0	0	0	0	0	0	0
Cabbage	Old Land	322	796	1735	572	92	224	115	59
	New Land	0		0					
	Total	322	796	1,735	572	92	224	115	59
Eggplant	Old Land	1003	1001	853	1067	1946	815	1216	1731
	New Land	255	340	0				776	598
	Total	1,258	1,341	853	1,067	1,946	815	1,992	2,329
Pepper	Old Land	1592	1509	2891	3684	3596	3163	1319	1921
	New Land	475	330	2,042	5,490	4,535	5,790	6,957	2,307
	Total	2,067	1,839	4,933	9,174	8,131	8,953	8,276	4,228
okra	Old Land	291	432	925	703	955	419	632	970
	New Land	0		0				25	29
	Total	291	432	925	703	955	419	657	999
Jews mallow	Old Land	194	1052	42	365	393	646	314	341
	New Land	0		0					
	Total	194	1,052	42	365	393	646	314	341
Sweet mallow	Old Land	20	170	795	344	103	666	899	782
	New Land	0		0					
	Total	20	170	795	344	103	666	899	782
Taro	Old Land	94	56	143	349	477	547	561	337
	New Land	0		0					
	Total	94	56	143	349	477	547	561	337
Radish	Old Land	2		0	69				
	New Land	0		0					
	Total	2	0	0	69	0	0	0	0
Parsley	Old Land	39	48	7	9	8	5	5	5
	New Land	0		0					
	Total	39	48	7	9	8	5	5	5
Rocket	Old Land	47	61	8	65	47	17	32	51
	New Land	0		0				10	15
	Total	47	61	8	65	47	17	42	66
Egyptian Leek	Old Land	33	47	6	8	44	11	37	59
	New Land	0		0				10	15
	Total	33	47	6	8	44	11	47	74
Lettuce	Old Land	0		0					
	New Land	0		0					
	Total	0	0	0	0	0	0	0	0
Dill	Old Land	1	34	0					
	New Land	0		0					
	Total	1	34	0	0	0	0	0	0
Spinach	Old Land	27	25	25	25	22	12		
	New Land	0		0					
	Total	27	25	25	25	22	12	0	0
Purslane	Old Land	0		0			5		
	New Land	0		0					
	Total	0	0	0	0	0	5	0	0
Water melon	Old Land	4055	2465	1311	1359	974	901	505	367
	New Land	1,890	800	1,569	936	1,060	750	980	407
	Total	5,945	3,265	2,880	2,295	2,034	1,651	1,485	774
Sweet melon	Old Land	5033	2433	3998	5595	5887	1917	3006	1685
	New Land	0		0			370	235	
	Total	5,033	2,433	3,998	5,595	5,887	2,287	3,241	1,685
Cucumber	Old Land	8883	4365	6150	7966	7089	5064	5782	6497
	New Land	225		0		1,285		321	416
	Total	9,108	4,365	6,150	7,966	8,374	5,064	6,103	6,913
Snake cucumber	Old Land	1364	757	1085	1357	846	1334	1101	764
	New Land	0		0				3	
	Total	1,364	757	1,085	1,357	846	1,334	1,104	764
Cantalope	Old Land	257	109	78	202	277	158	268	637
	New Land	220		0				320	
	Total	477	109	78	202	277	158	588	637
Melon (shahd)	Old Land								60
	New Land								
	Total	0	0	0	0	0	0	0	60
Melon (quoz)	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Total	Old Land	29968	24692	27561	33449	33112	25556	23457	24181
	New Land	3,450	1,815	3,611	6,426	6,880	6,910	15,852	4,963
	Total	33,418	26,507	31,172	39,875	39,992	32,466	39,309	29,144

Summer Vegetable Production (t)

Crop	Land	Minya							
		2003	2004	2005	2006	2007	2008	2009	2010
Tomato	Old Land	77865	116397	100405	122443	141723	142403	126713	121805
	New Land	2,000		0				102,384	18,699
	Total	79,865	116,397	100,405	122,443	141,723	142,403	229,097	140,504
Squash	Old Land	1899	4423	810	7083	1720	3430	1004	924
	New Land	0		0					
	Total	1,899	4,423	810	7,083	1,720	3,430	1,004	924
Green Beans	Old Land	641	2018	1045	3014	2590	2289	329	
	New Land	0		0					
	Total	641	2,018	1,045	3,014	2,590	2,289	329	0
Green Kidney Beans	Old Land	1117	488	3267	2758	4084	1229	333	1151
	New Land	855	1,035	0				340	
	Total	1,972	1,523	3,267	2,758	4,084	1,229	673	1,151
Dry Kidney Beans	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Cabbage	Old Land	2447	6045	13890	4673	789	1919	2416	1070
	New Land	0		0					
	Total	2,447	6,045	13,890	4,673	789	1,919	2,416	1,070
Eggplant	Old Land	8325	9805	8811	11077	20790	9081	13962	15756
	New Land	2,040	2,260	0				7,619	5,331
	Total	10,365	12,065	8,811	11,077	20,790	9,081	21,581	21,087
Pepper	Old Land	10851	10165	23637	28366	30260	26854	9797	10455
	New Land	1,900	900	8,168	23,060	27,740	46,320	56,004	23,503
	Total	12,751	11,065	31,805	51,426	58,000	73,174	65,801	33,958
Okra	Old Land	2254	3461	7704	5954	8206	3646	4548	4029
	New Land	0		0				150	171
	Total	2,254	3,461	7,704	5,954	8,206	3,646	4,698	4,200
Jews Mallow	Old Land	1422	7961	336	3033	3395	5606	2812	2282
	New Land	0		0					
	Total	1,422	7,961	336	3,033	3,395	5,606	2,812	2,282
Sweet potato	Old Land	160	1445	7155	3357	1009	6558	8912	7775
	New Land	0		0					
	Total	160	1,445	7,155	3,357	1,009	6,558	8,912	7,775
Taro	Old Land	948	571	1529	3873	5306	6242	7004	1993
	New Land	0		0					
	Total	948	571	1,529	3,873	5,306	6,242	7,004	1,993
Radish	Old Land	12			448				
	New Land	0							
	Total	12	0	0	448	0	0	0	0
Parsley	Old Land	237	294	56	74	67	43	43	30
	New Land	0		0					
	Total	237	294	56	74	67	43	43	30
Rocket	Old Land	310	404	60	501	348	130	240	255
	New Land	0		0				70	90
	Total	310	404	60	501	348	130	310	345
Egyptian Leek	Old Land	214	310	45	60	309	82	278	254
	New Land	0		0				75	90
	Total	214	310	45	60	309	82	353	344
Lettuce	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Dill	Old Land	5	184						
	New Land	0							
	Total	5	184	0	0	0	0	0	0
Spinach	Old Land	108	125	125	125	112	60		
	New Land	0		0					
	Total	108	125	125	125	112	60	0	0
Purslane	Old Land	0					43		
	New Land	0							
	Total	0	0	0	0	0	43	0	0
Watermelon (total)	Old Land	25802	23645	13386	13730	9793	8539	4495	3666
	New Land	22,680	8,100	23,535	11,853	12,930	7,500	11,142	3,427
	Total	48,482	31,745	36,921	25,583	22,723	16,039	15,637	7,093
Sweet melon	Old Land	41772	20807	34810	47499	49269	16588	27792	17085
	New Land	0		0			1,110	2,230	
	Total	41,772	20,807	34,810	47,499	49,269	17,698	30,022	17,085
Cucumber	Old Land	80969	40181	56205	73569	66104	48411	53882	68681
	New Land	1,800		0		11,695		2,974	4,040
	Total	82,769	40,181	56,205	73,569	77,799	48,411	56,856	72,721
Snake Cucumber	Old Land	14912	8304	11891	16008	9818	15888	9474	13150
	New Land	0		0				29	
	Total	14,912	8,304	11,891	16,008	9,818	15,888	9,503	13,150
Cantalope	Old Land	3084	1357	979	2449	2878	1646	3321	6944
	New Land	1,100		0				1,600	
	Total	4,184	1,357	979	2,449	2,878	1,646	4,921	6,944
Melon (shahd)	Old Land								510
	New Land								
	Total	0	0	0	0	0	0	0	510
Melon (quoz)	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Total	Old Land	275354	258390	286146	350094	358570	300687	277355	277815
	New Land	32,375	12,295	31,703	34,913	52,365	54,930	184,617	55,351
	Total	307,729	270,685	317,849	385,007	410,935	355,617	461,972	333,166

Summer Vegetable Yield (t/fed)

Crop	Land	Minya							
		2003	2004	2005	2006	2007	2008	2009	2010
Tomato	Old Land	12.63	13.77	14.69	14.87	15.15	16.05	16.94	15.91
	New Land	20.00						16.58	15.90
	Total	12.75	13.77	14.69	14.87	15.15	16.05	16.78	15.91
Squash	Old Land	8.37	9.04	9.00	9.27	9.35	9.74	9.38	9.63
	New Land								
	Total	8.37	9.04	9.00	9.27	9.35	9.74	9.38	9.63
Green beans	Old Land	6.10	6.41	7.92	8.44	8.46	8.26	8.44	
	New Land								
	Total	6.10	6.41	7.92	8.44	8.46	8.26	8.44	
green kidney beans	Old Land	5.24	6.42	7.20	7.75	8.02	8.30	8.54	7.02
	New Land	3.00	3.00					8.50	
	Total	3.96	3.62	7.20	7.75	8.02	8.30	8.52	7.02
Dry kidney beans	Old Land								
	New Land								
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cabbage	Old Land	7.60	7.59	8.01	8.17	8.58	8.57	21.01	18.14
	New Land								
	Total	7.60	7.59	8.01	8.17	8.58	8.57	21.01	18.14
Eggplant	Old Land	8.30	9.80	10.33	10.38	10.68	11.14	11.48	9.10
	New Land	8.00	6.65					9.82	8.91
	Total	8.24	9.00	10.33	10.38	10.68	11.14	10.83	9.05
Pepper	Old Land	6.82	6.74	8.18	7.70	8.41	8.49	7.43	5.44
	New Land	4.00	2.73	4.00	4.20	6.12	8.00	8.05	10.19
	Total	6.17	6.02	6.45	5.61	7.13	8.17	7.95	8.03
Okra	Old Land	7.75	8.01	8.33	8.47	8.59	8.70	7.20	4.15
	New Land							6.00	5.90
	Total	7.75	8.01	8.33	8.47	8.59	8.70	7.15	4.20
Jews mallow	Old Land	7.33	7.57	8.00	8.31	8.64	8.68	8.96	6.69
	New Land								
	Total	7.33	7.57	8.00	8.31	8.64	8.68	8.96	6.69
Sweet mallow	Old Land	8.00	8.50	9.00	9.76	9.80	9.85	9.91	9.94
	New Land								
	Total	8.00	8.50	9.00	9.76	9.80	9.85	9.91	9.94
Taro	Old Land	10.09	10.20	10.69	11.10	11.12	11.41	12.48	5.91
	New Land								
	Total	10.09	10.20	10.69	11.10	11.12	11.41	12.48	5.91
Radish	Old Land	6.00			6.49				
	New Land								
	Total	6.00			6.49				
Parsley	Old Land	6.08	6.13	8.00	8.22	8.38	8.60	8.60	6.00
	New Land								
	Total	6.08	6.13	8.00	8.22	8.38	8.60	8.60	6.00
Rocket	Old Land	6.60	6.62	7.50	7.71	7.40	7.65	7.50	5.00
	New Land							7.00	6.00
	Total	6.60	6.62	7.50	7.71	7.40	7.65	7.38	5.23
Egyptian leek	Old Land	6.48	6.60	7.50	7.50	7.02	7.45	7.51	4.31
	New Land							7.50	6.00
	Total	6.48	6.60	7.50	7.50	7.02	7.45	7.51	4.65
Lettuce	Old Land								
	New Land								
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dill	Old Land	5.00	5.41						
	New Land								
	Total	5.00	5.41						
Spinach	Old Land	4.00	5.00	5.00	5.00	5.09	5.00		
	New Land								
	Total	4.00	5.00	5.00	5.00	5.09	5.00	0.00	0.00
Purslane	Old Land						8.60		
	New Land								
	Total						8.60		
Water melon	Old Land	6.36	9.59	10.21	10.10	10.05	9.48	8.90	9.99
	New Land	12.00	10.13	15.00	12.66	12.20	10.00	11.37	8.42
	Total	8.16	9.72	12.82	11.15	11.17	9.71	10.53	9.16
Sweet melon	Old Land	8.30	8.55	8.71	8.49	8.37	8.65	9.25	10.14
	New Land						3.00	9.49	
	Total	8.30	8.55	8.71	8.49	8.37	7.74	9.26	10.14
Cucumber	Old Land	9.12	9.21	9.14	9.24	9.32	9.56	9.32	10.57
	New Land	8.00				9.10		9.26	9.71
	Total	9.09	9.21	9.14	9.24	9.29	9.56	9.32	10.52
Snake cucumber	Old Land	10.93	10.97	10.96	11.80	11.61	11.91	8.60	17.21
	New Land							9.67	
	Total	10.93	10.97	10.96	11.80	11.61	11.91	8.61	17.21
Canatlope	Old Land	12.00	12.45	12.55	12.12	10.39	10.42	12.39	10.90
	New Land	5.00						5.00	
	Total	8.77	12.45	12.55	12.12	10.39	10.42	8.37	10.90
Melon (shahd)	Old Land								8.50
	New Land								
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.50
Melon (quoz)	Old Land								
	New Land								
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	Old Land	9.19	10.46	10.38	10.47	10.83	11.77	11.82	11.49
	New Land	9.38	6.77	8.78	5.43	7.61	7.95	11.65	11.15
	Total	9.21	10.21	10.20	9.66	10.28	10.95	11.75	11.43

Cropped Area(fed) Nile vegetable

Governorate	Land	Minya							
		2003	2004	2005	2006	2007	2008	2009	2010
Nile Potatoes	Old Land	16229	25731	20492	20411	28758	27474	29337	29643
	New Land	0	0	0	0	0	0	0	0
	Total	16,229	25,731	20,492	20,411	28,758	27,474	29,337	29,643
Nile Tomato	Old Land	885	1099	552	1168	879	5757	248	
	New Land	0	0	0	0	0	0	0	
	Total	885	1,099	552	1,168	879	5,757	248	0
Squash	Old Land	94	77	119	32	35	200	16	
	New Land	0	0	0	0	0	0	0	
	Total	94	77	119	32	35	200	16	0
Green Beans	Old Land	150	102	233	322	67	230	86	
	New Land	0	0	0	0	0	0	0	
	Total	150	102	233	322	67	230	86	0
Green Peas	Old Land	22	0	0	49	43	204	0	
	New Land	0	0	0	0	0	0	0	
	Total	22	0	0	49	43	204	0	0
Cabbage	Old Land	196	35	147	669	130	82	0	
	New Land	0	0	0	0	0	0	0	
	Total	196	35	147	669	130	82	0	0
Eggplant	Old Land	20	50	0	28	0	360	0	
	New Land	0	0	0	0	0	0	0	
	Total	20	50	0	28	0	360	0	0
Pepper	Old Land	47	50	66	94	74	320	0	
	New Land	0	0	0	0	0	0	0	
	Total	47	50	66	94	74	320	0	0
Carrot	Old Land	0	4	0	0	0	58	45	
	New Land	0	0	0	0	0	0	0	
	Total	0	4	0	0	0	58	45	0
Parsley	Old Land	20	20	50	5	5	2	1	
	New Land	0	0	0	0	0	0	0	
	Total	20	20	50	5	5	2	1	0
Rocket	Old Land	16	17	0	44	22	2	0	
	New Land	0	0	0	0	0	0	0	
	Total	16	17	0	44	22	2	0	0
Egyptian Leek	Old Land	15	18	8	8	28	3	0	
	New Land	0	0	0	0	0	0	0	
	Total	15	18	8	8	28	3	0	0
Cucumber	Old Land	1528	0	1482	2673	4173	2143	0	
	New Land	0	0	0	0	0	0	0	
	Total	1,528	0	1,482	2,673	4,173	2,143	0	0
Snake Cucumber	Old Land	1052	0	584	840	1110	1005	0	
	New Land	0	0	0	0	0	0	0	
	Total	1,052	0	584	840	1,110	1,005	0	0
Total	Old Land	20277	27203	23733	26343	35324	37840	29733	29643
	New Land	0	0	0	0	0	0	0	0
	Total	20,277	27,203	23,733	26,343	35,324	37,840	29,733	29,643

Crop Production (t) Nile Crop

Crop	Land	Minya							
		2003	2004	2005	2006	2007	2008	2009	2010
Nile Potatoes	Old Land	113,090	183,002	158,517	177,357	244,281	247,485	255,450	234,760
	New Land	0		0					
	Total	113,090	183,002	158,517	177,357	244,281	247,485	255,450	234,760
Nile Tomato	Old Land	9,471	12,509	6,580	15,913	16,456	98,509	3,720	
	New Land	0	0	0					
	Total	9,471	12,509	6,580	15,913	16,456	98,509	3,720	0
Squash	Old Land	729	571	904	224	255	1,579	126	
	New Land	0	0						
	Total	729	571	904	224	255	1,579	126	0
Green Beans	Old Land	1,039	779	1,812	2,553	518	1,962	774	
	New Land	0	0						
	Total	1,039	779	1,812	2,553	518	1,962	774	0
Green Peas	Old Land	133			221	194	1,016		
	New Land	0							
	Total	133	0	0	221	194	1,016	0	0
Cabbage	Old Land	1,565	300	1,188	5,799	1,315	874		
	New Land	0	0						
	Total	1,565	300	1,188	5,799	1,315	874	0	0
Eggplant	Old Land	122	408		196		2,554		
	New Land	0	0						
	Total	122	408	0	196	0	2,554	0	0
Pepper	Old Land	243	275	416	628	434	1,920		
	New Land	0	0						
	Total	243	275	416	628	434	1,920	0	0
Carrot	Old Land	0	30				174	135	
	New Land	0	0						
	Total	0	30	0	0	0	174	135	0
Parsley	Old Land	95	90	250	30	31	2	1	
	New Land	0	0						
	Total	95	90	250	30	31	2	1	0
Rocket	Old Land	93	91		264	134	3		
	New Land	0	0						
	Total	93	91	0	264	134	3	0	0
Egyptian Leek	Old Land	80	86	48	48	170	3		
	New Land	0	0						
	Total	80	86	48	48	170	3	0	0
Cucumber	Old Land	13,849	0	11,693	21,183	35,874	18,858		
	New Land	0	0						
	Total	13,849	0	11,693	21,183	35,874	18,858	0	0
Snake Cucumber	Old Land	9,793	0	5,256	7,610	10,970	9,890		
	New Land	0	0						
	Total	9,793	0	5,256	7,610	10,970	9,890	0	0
Total	Old Land	150,308	198,141	186,664	232,026	310,632	384,829	260,206	234,760
	New Land	0	0	0	0	0	0	0	0
	Total	150,308	198,141	186,664	232,026	310,632	384,829	260,206	234,760

Fruit Trees Cropped Area (fed)

Crop	Land	Minya							
		2003	2004	2005	2006	2007	2008	2009	2010
Citrus	Old Land	2778	2778	3077	3294	3330	3395	3028	3057
	New Land	0		0	275	235	375	18,152	999
	Total	2,778	2,778	3,077	3,569	3,565	3,770	21,180	4,056
Grape	Old Land	20536	20277	19451	19414	19343	19076	18471	18821
	New Land	30	200	0	90	375	456	631	649
	Total	20,566	20,477	19,451	19,504	19,718	19,532	19,102	19,470
Mango	Old Land	750	816	1159	1187	1287	1294	589	585
	New Land	10		0	30	535	250	706	706
	Total	760	816	1,159	1,217	1,822	1,544	1,295	1,291
Banana	Old Land	2207	2149	2133	2040	1865	1965	1998	1916
	New Land	0		0		40		76	62
	Total	2,207	2,149	2,133	2,040	1,905	1,965	2,074	1,978
Apple	Old Land	135	141	141	135	141	138	54	35
	New Land	12		0		72		81	77
	Total	147	141	141	135	213	138	135	112
Peach	Old Land	59	67	72	90	92	74	41	33
	New Land	0		0		20		35	35
	Total	59	67	72	90	112	74	76	68
Plum	Old Land	12	12	12	12	16	16	2	2
	New Land	0		0		10		14	12
	Total	12	12	12	12	26	16	16	14
Fig	Old Land	440	439	447	454	480	474	386	382
	New Land	0		0				96	96
	Total	440	439	447	454	480	474	482	478
Prickly pear	Old Land	8	8	8	8	8	8	5	6
	New Land	80		0				7	7
	Total	88	8	8	8	8	8	12	13
Guava	Old Land	401	387	457	482	483	474	119	115
	New Land	30		0	7	157	150	386	408
	Total	431	387	457	489	640	624	505	523
Pomegranate	Old Land	24	27	67	105	110	115	18	17
	New Land	0		0		70		109	103
	Total	24	27	67	105	180	115	127	120
Apricot	Old Land	29	28	20	22	26	26	3	3
	New Land	0		0		15		23	19
	Total	29	28	20	22	41	26	26	22
Pear	Old Land	10	15	19	18	23	23	4	4
	New Land	0		0	15	30	115	18	18
	Total	10	15	19	33	53	138	22	22
Olive	Old Land	261	267	281	309	349	368	10	8
	New Land	120		30	37	170	270	356	367
	Total	381	267	311	346	519	638	366	375
Almond	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Custard Apple	Old Land	14	14	9	9	9	9	4	1
	New Land	0		0				5	5
	Total	14	14	9	9	9	9	9	6
Medlar	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Persimmon	Old Land	1	1	1	1	1	1	1	1
	New Land	0		0					
	Total	1	1	1	1	1	1	1	1
Pecannut	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Avocado	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Science tree	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Total	Old Land	27665	27426	27354	27580	27563	27456	24733	24986
	New Land	282	200	30	454	1,729	1,616	20,695	3,563
	Total	27,947	27,626	27,384	28,034	29,292	29,072	45,428	28,549

Fruit Trees Production (t)

Crop	Land	Minya							
		2003	2004	2005	2006	2007	2008	2009	2010
Citrus	Old Land	11347	14418	17888	15338	15376	17053	18152	16737
	New Land	0		0			455	2447	2767
	Total	11,347	14,418	17,888	15,338	15,376	17,508	20,599	19,504
Grape	Old Land	114122	117171	148773	119848	125308	135100	120512	123676
	New Land	0	120	0	120	110	360	3247	3558
	Total	114,122	117,291	148,773	119,968	125,418	135,460	123,759	127,234
Mango	Old Land	983	1245	1814	1957	1937	2742	1388	1515
	New Land	0		0			60	1580	1885
	Total	983	1,245	1,814	1,957	1,937	2,802	2,968	3,400
Banana	Old Land	12105	18638	21701	22962	23257	23570	24349	23677
	New Land	0		0				615	671
	Total	12,105	18,638	21,701	22,962	23,257	23,570	24,964	24,348
Apple	Old Land	778	584	696	736	852	772	372	235
	New Land	0		0				519	511
	Total	778	584	696	736	852	772	891	746
Peach	Old Land	34	46	202	238	224	184	179	183
	New Land	0		0				137	183
	Total	34	46	202	238	224	184	316	366
Plum	Old Land	30	29	30	30	30	29	5	4
	New Land	0		0				25	26
	Total	30	29	30	30	30	29	30	30
Fig	Old Land	1551	2503	3139	3288	3465	3671	1939	2585
	New Land	0		0				394	597
	Total	1,551	2,503	3,139	3,288	3,465	3,671	2,333	3,182
Prickly Pear	Old Land	6	6	48	50	50	50	6	6
	New Land	0		0				42	43
	Total	6	6	48	50	50	50	48	49
Guava	Old Land	1496	2190	2218	2434	2167	2466	622	594
	New Land	0		0			35	2080	2210
	Total	1,496	2,190	2,218	2,434	2,167	2,501	2,702	2,804
Pomegranante	Old Land	50	100	72	103	70	281	44	75
	New Land	0		0				296	452
	Total	50	100	72	103	70	281	340	527
Apricot	Old Land	16	45	28	24	20	56	8	8
	New Land	0		0				72	80
	Total	16	45	28	24	20	56	80	88
Pear	Old Land	20	24	27	35	116	116	19	19
	New Land	0		0			45	76	85
	Total	20	24	27	35	116	161	95	104
Olive	Old Land	59	71	315	373	584	895	37	25
	New Land	0		90	60	75	111	1378	1342
	Total	59	71	405	433	659	1,006	1,415	1,367
Almond	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Custard Apple	Old Land	27	28	14	16	13	16	13	3
	New Land	0		0				16	17
	Total	27	28	14	16	13	16	29	20
Medlar	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Persimon	Old Land	2	2	2	2	6	6	6	6
	New Land	0		0					
	Total	2	2	2	2	6	6	6	6
Pecan Nut	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Avocado	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Science tree	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Total	Old Land	142626	157100	196967	167434	173475	187007	167651	169348
	New Land	0	120	90	180	185	1066	12924	14427
	Total	142,626	157,220	197,057	167,614	173,660	188,073	180,575	183,775

Fruit Trees Yield (t/fed)

Crop	Land	Minya							
		2003	2004	2005	2006	2007	2008	2009	2010
Citrus	Old Land	4.08	5.19	5.81	4.66	4.62	5.02	5.99	5.47
	New Land				0.00	0.00	1.21	0.13	2.77
	Total	4.08	5.19	5.81	4.30	4.31	4.64	0.97	4.81
Grape	Old Land	5.56	5.78	7.65	6.17	6.48	7.08	6.52	6.57
	New Land	0.00	0.60		1.33	0.29	0.79	5.15	5.48
	Total	5.55	5.73	7.65	6.15	6.36	6.94	6.48	6.53
Mango	Old Land	1.31	1.53	1.57	1.65	1.51	2.12	2.36	2.59
	New Land	0.00			0.00	0.00	0.24	2.24	2.67
	Total	1.29	1.53	1.57	1.61	1.06	1.81	2.29	2.63
Banana	Old Land	5.48	8.67	10.17	11.26	12.47	11.99	12.19	12.36
	New Land					0.00		8.09	10.82
	Total	5.48	8.67	10.17	11.26	12.21	11.99	12.04	12.31
Apple	Old Land	5.76	4.14	4.94	5.45	6.04	5.59	6.89	6.71
	New Land	0.00				0.00		6.41	6.64
	Total	5.29	4.14	4.94	5.45	4.00	5.59	6.60	6.66
Peach	Old Land	0.58	0.69	2.81	2.64	2.43	2.49	4.37	5.55
	New Land					0.00		3.91	5.23
	Total	0.58	0.69	2.81	2.64	2.00	2.49	4.16	5.38
Plum	Old Land	2.50	2.42	2.50	2.50	1.88	1.81	2.50	2.00
	New Land					0.00		1.79	2.17
	Total	2.50	2.42	2.50	2.50	1.15	1.81	1.88	2.14
Fig	Old Land	3.53	5.70	7.02	7.24	7.22	7.74	5.02	6.77
	New Land							4.10	6.22
	Total	3.53	5.70	7.02	7.24	7.22	7.74	4.84	6.66
Prickly pear	Old Land	0.75	0.75	6.00	6.25	6.25	6.25	1.20	1.00
	New Land	0.00						6.00	6.14
	Total	0.07	0.75	6.00	6.25	6.25	6.25	4.00	3.77
Guava	Old Land	3.73	5.66	4.85	5.05	4.49	5.20	5.23	5.17
	New Land	0.00			0.00	0.00	0.23	5.39	5.42
	Total	3.47	5.66	4.85	4.98	3.39	4.01	5.35	5.36
Pomegranate	Old Land	2.08	3.70	1.07	0.98	0.64	2.44	2.44	4.41
	New Land					0.00		2.72	4.39
	Total	2.08	3.70	1.07	0.98	0.39	2.44	2.68	4.39
Apricot	Old Land	0.55	1.61	1.40	1.09	0.77	2.15	2.67	2.67
	New Land					0.00		3.13	4.21
	Total	0.55	1.61	1.40	1.09	0.49	2.15	3.08	4.00
Pear	Old Land	2.00	1.60	1.42	1.94	5.04	5.04	4.75	4.75
	New Land				0.00	0.00	0.39	4.22	4.72
	Total	2.00	1.60	1.42	1.06	2.19	1.17	4.32	4.73
Olive	Old Land	0.23	0.27	1.12	1.21	1.67	2.43	3.70	3.13
	New Land	0.00		3.00	1.62	0.44	0.41	3.87	3.66
	Total	0.15	0.27	1.30	1.25	1.27	1.58	3.87	3.65
Almond	Old Land								
	New Land								
	Total								
Custard apple	Old Land	1.93	2.00	1.56	1.78	1.44	1.78	3.25	3.00
	New Land							3.20	3.40
	Total	1.93	2.00	1.56	1.78	1.44	1.78	3.22	3.33
Medlar	Old Land								
	New Land								
	Total								
Persimmion	Old Land	2.00	2.00	2.00	2.00	6.00	6.00	6.00	6.00
	New Land								
	Total	2.00	2.00	2.00	2.00	6.00	6.00	6.00	6.00
Pecan nut	Old Land								
	New Land								
	Total								
Avocado	Old Land								
	New Land								
	Total								
Science trees	Old Land								
	New Land								
	Total								
Total	Old Land	5.16	5.73	7.20	6.07	6.29	6.81	6.78	6.78
	New Land	0.00	0.60	3.00	0.40	0.11	0.66	0.62	4.05
	Total	5.10	5.69	7.20	5.98	5.93	6.47	3.97	6.44

Winter Ornamental Crop Area (fed)

Crop	Land	Minya								
		2003	2004	2005	2006	2007	2008	2009	2010	2011
Coriander	Old Land	12,535	13,418	13,915	11,691	14,136	7,936	9,887	11,825	8,853
	New Land	0		20	0		4			
	Total	12,535	13,418	13,935	11,691	14,136	7,940	9,887	11,825	8,853
Cumin	Old Land	3,549	2,748	2,132	2,155	2,648	902	1,283	1,487	1,701
	New Land	104	45	1,685	0	21	34	15	1,717	30
	Total	3,653	2,793	3,817	2,155	2,669	936	1,298	3,204	1,731
Fennel	Old Land	64		117	120	541	192	51	395	22
	New Land	0		13	0	205	235	205	265	330
	Total	64	0	130	120	746	427	256	660	352
Aniseed	Old Land	1,428	1,791	1,781	1,704	2,425	1,433	1,490	4,263	2,480
	New Land	0	16	25	4	59	8	10	159	156
	Total	1,428	1,807	1,806	1,708	2,484	1,441	1,500	4,422	2,636
Bardacoch	Old Land	943	986	1,232	1,418	1,369	1,206	372	1,287	937
	New Land	200	505	50	1,649	1,260	1,275	3,268	2,215	2,235
	Total	1,143	1,491	1,282	3,067	2,629	2,481	3,640	3,502	3,172
Caraway	Old Land	605	1,112	1,527	1,412	1,899	921	632	270	634
	New Land	150	381		421	980	860	1,235	1,362	1,107
	Total	755	1,493	1,527	1,833	2,879	1,781	1,867	1,632	1,741
Wormwood	Old Land						0			
	New Land		14				2			
	Total	0	14	0	0	0	2	0	0	0
Moghat	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Green mint	Old Land	8	32			42	38	13	51	16
	New Land		100				0	20	20	20
	Total	8	132	0	0	42	38	33	71	36
Green peppery mint	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Fennel flower	Old Land	9		3	2	11	1	5		
	New Land	0		2	0		0	0		
	Total	9	0	5	2	11	1	5	0	0
Safflower seed	Old Land	107	55	68	30	6		0		
	New Land	123	70		180	130		390	150	85
	Total	230	125	68	210	136	0	390	150	85
Lemon grass	Old Land					15	24	15	8	14
	New Land						0	0		
	Total	0	0	0	0	15	24	15	8	14
Liquorice root	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Dill	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Thyme	Old Land				4		0	8	15	38
	New Land				0		6			
	Total	0	0	0	4	0	6	8	15	38
Dry tea	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Parsley	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Intajet	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Green basil	Old Land	4			0	3	0			
	New Land	0	60		65	150	10			
	Total	4	60	0	65	153	10	0	0	0
Green marjoram	Old Land	5		2						
	New Land									
	Total	5	0	2	0	0	0	0	0	0
Feul	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Total	Old Land	19,257	20,142	20,777	18,536	23,095	12,653	13,756	19,601	14,695
	New Land	577	1,191	1,795	2,319	2,805	2,434	5,143	5,888	3,963
	Total	19,834	21,333	22,572	20,855	25,900	15,087	18,899	25,489	18,658

Winter Ornamental Crop Production (t)

Crop	Land	Minya								
		2003	2004	2005	2006	2007	2008	2009	2010	2011
Corriander	Old Land	9479	11913	12381	10613	12830	7174	9819	11732	7394
	New Land	0		16	0		3			
	Total	9,479	11,913	12,397	10,613	12,830	7,177	9,819	11,732	7,394
Corriander	Old Land	1768	1566	1245	1291	1740	590	805	1075	1250
	New Land	47	20	778	0	13	21	9	1168	18
	Total	1,815	1,586	2,023	1,291	1,753	611	814	2,243	1,268
Fennel	Old Land	61		88	88	395	148	49	381	14
	New Land	0		12	0	123	141	128	165	198
	Total	61	0	100	88	518	289	177	546	212
Aniseed	Old Land	771	1073	1061	968	1455	961	974	2815	1768
	New Land	0	8	14	0	33	4	5	84	107
	Total	771	1,081	1,075	968	1,488	965	979	2,899	1,875
Bardacoch	Old Land	926	1006	1222	1411	1366	1341	435	1517	2701
	New Land	140	404	40	1472	1083	1237	4581	2205	6665
	Total	1,066	1,410	1,262	2,883	2,449	2,578	5,016	3,722	9,366
Caraway	Old Land	412	767	1058	969	1423	710	470	202	543
	New Land	52	187		182	443	344	580	612	614
	Total	464	954	1,058	1,151	1,866	1,054	1,050	814	1,157
Wormwood	Old Land	0					0			
	New Land	0	8				6			
	Total	0	8	0	0	0	6	0	0	0
Moghat	Old Land	0								
	New Land	0								
	Total	0	0	0	0	0	0	0	0	0
Green Mint	Old Land	29	134			148	196	230	969	194
	New Land		350				0	80	120	320
	Total	29	484	0	0	148	196	310	1,089	514
Green Peppery Mint	Old Land	0								
	New Land	0								
	Total	0	0	0	0	0	0	0	0	0
Fennel Flower	Old Land	4		2	1	9	1	3		
	New Land	0		1	0		0			
	Total	4	0	3	1	9	1	3	0	0
Safflower seed	Old Land	53	30	37	15	3		0		
	New Land	68	39		99	78		218	75	30
	Total	121	69	37	114	81	0	218	75	30
Lemon grass	Old Land					150	96	37	100	145
	New Land						0			
	Total	0	0	0	0	150	96	37	100	145
Liquorice root	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Dill	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Thyme	Old Land				2		0	14	26	21
	New Land				0		9			
	Total		0	0	2	0	9	14	26	21
Dry tea	Old Land									
	New Land									
	Total		0	0	0	0	0	0	0	0
Parsley	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Intajet	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Green basil	Old Land	16			0	40	0			
	New Land	0	60		65	1125	130			
	Total	16	60	0	65	1,165	130	0	0	0
Green marjoram	Old Land	35		14						
	New Land									
	Total	35	0	14	0	0	0	0	0	0
Feul	Old Land	0								
	New Land	0								
	Total	0	0	0	0	0	0	0	0	0
Total	Old Land	13554	16489	17108	15358	19559	11217	12836	18817	14030
	New Land	307	1076	861	1818	2898	1895	5601	4429	7952
	Total	13,861	17,565	17,969	17,176	22,457	13,112	18,437	23,246	21,982

Winter Ornamental Crop Yield (t/fed)

Crop	Land	Minya								
		2003	2004	2005	2006	2007	2008	2009	2010	2011
Coriander	Old Land	0.76	0.89	0.89	0.91	0.91	0.90	0.99	0.99	0.84
	New Land			0.80			0.75			
	Total	0.76	0.89	0.89	0.91	0.91	0.90	0.99	0.99	0.84
Cumin	Old Land	0.50	0.57	0.58	0.60	0.66	0.65	0.63	0.72	0.73
	New Land	0.45	0.44	0.46		0.62	0.62	0.60	0.68	0.60
	Total	0.50	0.57	0.53	0.60	0.66	0.65	0.63	0.70	0.73
Fennel	Old Land	0.95		0.75	0.73	0.73	0.77	0.96	0.96	0.64
	New Land			0.92		0.60	0.60	0.62	0.62	0.60
	Total	0.95		0.77	0.73	0.69	0.68	0.69	0.83	0.60
Aniseed	Old Land	0.54	0.60	0.60	0.57	0.60	0.67	0.65	0.66	0.71
	New Land		0.50	0.56	0.00	0.56	0.50	0.50	0.53	0.69
	Total	0.54	0.60	0.60	0.57	0.60	0.67	0.65	0.66	0.71
bardacoch	Old Land	0.98	1.02	0.99	1.00	1.00	1.11	1.17	1.18	2.88
	New Land	0.70	0.80	0.80	0.89	0.86	0.97	1.40	1.00	2.98
	Total	0.93	0.95	0.98	0.94	0.93	1.04	1.38	1.06	2.95
Caraway	Old Land	0.68	0.69	0.69	0.69	0.75	0.77	0.74	0.75	0.86
	New Land	0.35	0.49		0.43	0.45	0.40	0.47	0.45	0.55
	Total	0.61	0.64	0.69	0.63	0.65	0.59	0.56	0.50	0.66
Wormwood	Old Land									
	New Land		0.57				3.00			
	Total		0.57				3.00			
Moghat	Old Land									
	New Land									
	Total									
Green mint	Old Land	3.63	4.19			3.52	5.16	17.69	19.00	12.13
	New Land		3.50					4.00	6.00	16.00
	Total	3.63	3.67			3.52	5.16	9.39	15.34	14.28
Green peppery mint	Old Land									
	New Land									
	Total									
Fennel flower	Old Land	0.44		0.67	0.50	0.82	1.00	0.60		
	New Land			0.50						
	Total	0.44		0.60	0.50	0.82	1.00	0.60		
Safflower seed	Old Land	0.50	0.55	0.54	0.50	0.50				
	New Land	0.55	0.56		0.55	0.60		0.56	0.50	0.35
	Total	0.53	0.55	0.54	0.54	0.60		0.56	0.50	0.35
Lemon grass	Old Land					10.00	4.00	2.47	12.50	10.36
	New Land									
	Total					10.00	4.00	2.47	12.50	10.36
Liquorice root	Old Land									
	New Land									
	Total									
Dill	Old Land									
	New Land									
	Total									
Thyme	Old Land				0.50			1.75	1.73	0.55
	New Land						1.50			
	Total				0.50		1.50	1.75	1.73	0.55
Dry tea	Old Land									
	New Land									
	Total									
Parsley	Old Land									
	New Land									
	Total									
Intajet	Old Land									
	New Land									
	Total									
Green basil	Old Land	4.00				13.33				
	New Land		1.00		1.00	7.50	13.00			
	Total	4.00	1.00		1.00	7.61	13.00			
Green marjoram	Old Land	7.00		7.00						
	New Land									
	Total	7.00		7.00						
Feul	Old Land									
	New Land									
	Total									
Total	Old Land	0.70	0.82	0.82	0.83	0.85	0.89	0.93	0.96	0.95
	New Land	0.53	0.90	0.48	0.78	1.03	0.78	1.09	0.75	2.01
	Total	0.70	0.82	0.80	0.82	0.87	0.87	0.98	0.91	1.18

Summer Ornamental Crop Area (fed)

Crop	Land	Minya							
		2003	2004	2005	2006	2007	2008	2009	2010
Carcade	Old Land							21	
	New Land							32	
	Total	0	0	0	0	0	0	53	0
Green red chilies	Old Land					1,346			
	New Land								
	Total	0	0	0	0	1,346	0	0	0
Demsisa	Old Land								
	New Land								
	Total		0	0	0	0	0	0	0
Moghat	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Bardacoch	Old Land						0	686	1,243
	New Land						2,910	2,854	130
	Total	0	0	0	0	0	2,910	3,540	1,373
Barady Spear mint(green)	Old Land						0	21	20
	New Land						0	34	
	Total	0	0	0	0	0	0	55	20
Barady spear mint(Dry)	Old Land								
	New Land								
	Total	0	0	0	0	0		0	0
Pepery mint	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Rosemary	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Lemon grass	Old Land							10	18
	New Land								
	Total	0	0	0	0	0	0	10	18
Cactus	Old Land								
	New Land								
	Total		0	0	0	0	0	0	0
Liquorice Root	Old Land					0			
	New Land					0			
	Total	0	0	0	0	0	0	0	0
Parsley	Old Land								
	New Land								
	Total		0	0	0	0	0	0	0
Hohoba	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Intajet	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Marjoram	Old Land								2
	New Land								
	Total		0	0	0	0	0	0	2
Basil	Old Land							28	
	New Land							190	250
	Total	0	0	0	0	0	0	218	250
Caraway	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Nursery ornament	Old Land					29	31		
	New Land						0		
	Total	0	0	0	0	29	31	0	0
Total	Old Land				0	1,375	31	766	1,283
	New Land				0	0	2,910	3,110	380
	Total	0	0	0	0	1,375	2,941	3,876	1,663

Summer Ornamental Crop Production (t)

Crop	Land	Minya							
		2003	2004	2005	2006	2007	2008	2009	2010
Carcade	Old Land							12	
	New Land							20	
	Total	0	0	0	0	0	0	32	0
Green red chilies	Old Land					9305			
	New Land								
	Total	0	0	0	0	9,305	0	0	0
Demsisa	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Moghat	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Bardacoch	Old Land						0	813	1463
	New Land						2910	2627	115
	Total	0	0	0	0	0	2,910	3,440	1,578
Barady spear mint (green)	Old Land							372	350
	New Land							129	
	Total	0	0		0	0	0	501	350
Barady spear mint (dry)	Old Land								
	New Land								
	Total	0	0	0	0	0		0	0
Peppery mint	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Rosemary	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Lemon grass	Old Land							168	282
	New Land								
	Total	0	0	0	0	0	0	168	282
Cactus	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Liquorice root	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	
Parsley	Old Land								
	New Land								
	Total		0	0	0	0	0	0	0
Hohoba	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Intajet	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Marjoram	Old Land								31
	New Land								
	Total	0	0	0	0	0	0	0	31
Basil	Old Land							359	
	New Land							1441	3125
	Total	0	0	0	0	0	0	1,800	3,125
Caraway	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Nursery Ornamental	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Total	Old Land					9305	0	1724	2126
	New Land					0	2910	4217	3240
	Total	0	0	0	0	9,305	2,910	5,941	5,366

Summer Ornamental Crop Yield (t/fed)

Crop	Land	Minya							
		2003	2004	2005	2006	2007	2008	2009	2010
Carcade	Old Land							0.57	
	New Land							0.63	
	Total							0.60	
Green red chilies	Old Land					6.91			
	New Land								
	Total					6.91			
Demsisa	Old Land								
	New Land								
	Total								
Moghat	Old Land								
	New Land								
	Total								
bardacoch	Old Land							1.19	1.18
	New Land						1.00	0.92	0.88
	Total						1.00	0.97	1.15
barady spear mint (green)	Old Land							17.71	17.50
	New Land							3.79	
	Total							9.11	17.50
Barady spear mint (dry)	Old Land								
	New Land								
	Total								
Peppery mint	Old Land								
	New Land								
	Total								
Rosemary	Old Land								
	New Land								
	Total								
lemon grass	Old Land							16.80	15.67
	New Land								
	Total							16.80	15.67
Cactus	Old Land								
	New Land								
	Total								
Liquorice root	Old Land								
	New Land								
	Total								
Parsley	Old Land								
	New Land								
	Total								
Hohoba	Old Land								
	New Land								
	Total								
Intajet	Old Land								
	New Land								
	Total								
Marjoram	Old Land								15.50
	New Land								
	Total								15.50
Basil	Old Land							12.82	
	New Land							7.58	12.50
	Total							8.26	12.50
Caraway	Old Land								
	New Land								
	Total								
Nursery ornamental	Old Land					0.00	0.00		
	New Land								
	Total					0.00	0.00		
Total	Old Land					6.77	0.00	2.25	1.66
	New Land						1.00	1.36	8.53
	Total					6.77	0.99	1.53	3.23

Cropped Area (fed) Winter Crop

Crop	Land	Assuit								
		2003	2004	2005	2006	2007	2008	2009	2010	2011
Long clover	Old Land	86870	91804	79530	82579	86441	77663	76566	79583	79974
	New Land	0		2,671	3,030	3,681	3,465	4,596	4,107	3,872
	Total	86,870	91,804	82,201	85,609	90,122	81,128	81,162	83,690	83,846
Flax	Old Land	0								
	New Land	0								
	Total	0	0	0	0	0	0	0	0	0
Wheat	Old Land	147576	139995	151828	152510	148983	157780	154197	152245	152633
	New Land	0	10,428	12,136	12,095	13,488	13,121	14,796	12,083	13,724
	Total	147,576	150,423	163,964	164,605	162,471	170,901	168,993	164,328	166,357
Barley	Old Land	231	281	100	208		47	48	140	120
	New Land	181	148	260	832	30	23		15	380
	Total	412	429	360	1,040	30	70	48	155	500
Broad bean	Old Land	12239	15879	11520	9985	12563	8514	11930	9718	7749
	New Land	90	73	35	95	130	167	240	184	226
	Total	12,329	15,952	11,555	10,080	12,693	8,681	12,170	9,902	7,975
Lentil	Old Land	3051	3015	1963	1129	1314	806	1166	1799	1476
	New Land	6		0	0		0		10	15
	Total	3,057	3,015	1,963	1,129	1,314	806	1,166	1,809	1,491
Fenugreek	Old Land	472	541	1289	1262	737	804	1544	2532	1399
	New Land	162	130	102	351	484	153	183	337	105
	Total	634	671	1,391	1,613	1,221	957	1,727	2,869	1,504
Chickpea	Old Land	12153	10760	12796	12994	9048	7757	5600	7279	6424
	New Land	0		0	0		0		0	
	Total	12,153	10,760	12,796	12,994	9,048	7,757	5,600	7,279	6,424
Lupine	Old Land	214	122	227	228	272	233	12	55	165
	New Land	0		0	0	159	0			
	Total	214	122	227	228	431	233	12	55	165
Onion	Old Land	3466	3778	5018	3184	3655	4336	4212	3910	4850
	New Land	411	600	651	741	642	592	995	1,179	1,918
	Total	3,877	4,378	5,669	3,925	4,297	4,928	5,207	5,089	6,768
Garlic	Old Land	438	260	322	748	477	441	209	483	901
	New Land	0		0	0	27	8	15	8	10
	Total	438	260	322	748	504	449	224	491	911
Sugar beet	Old Land	429	119	122	798	1826	513	1597	4559	4869
	New Land	0	584	28	90	115	150	359	665	209
	Total	429	703	150	888	1,941	663	1,956	5,224	5,078
Potatoes	Old Land	0				76	63			
	New Land	0					0			
	Total	0	0	0	0	76	63	0	0	0
Tomato	Old Land	10704	9575	10209	9513	9676	9729	6258	6479	6898
	New Land	0		0	0		0	3,291	3,642	5,872
	Total	10,704	9,575	10,209	9,513	9,676	9,729	9,549	10,121	12,770
Other vegetables	Old Land	1644	2594	2617	2498	2855	2690	1788	2237	
	New Land	0	35	0				980	1,079	
	Total	1,644	2,629	2,617	2,498	2,855	2,690	2,768	3,316	0
Other crops	Old Land	4707	4040	3579	3300	3913	2729	2984	4362	
	New Land	84	169	70	159	166	256	1,811	699	
	Total	4,791	4,209	3,649	3,459	4,079	2,985	4,795	5,061	0
Total	Old Land	284194	282763	281120	280936	281836	274105	268111	275381	267458
	New Land	934	12,167	15,953	17,393	18,922	17,935	27,266	24,008	26,331
	Total	285,128	294,930	297,073	298,329	300,758	292,040	295,377	299,389	293,789

Crop Production (t) Winter Crop

Governorate	Land	Assuit								
		2003	2004	2005	2006	2007	2008	2009	2010	2011
Long clover	Old Land	2,680,291	2,865,607	2,540,983	2,681,410	2,768,961	2,461,076	2,411,905	2,418,631	2,322,658
	New Land	0		88,115	100,210	122,260	120,592	79,748	77,718	82,009
	Total	2,680,291	2,865,607	2,629,098	2,781,620	2,891,221	2,581,668	2,491,653	2,496,349	2,404,667
Flax	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Wheat	Old Land	432,324	419,390	455,712	440,016	422,737	446,541	457,725	361,506	455,763
	New Land	0	25,787	25,686	24,170	26,658	28,079	31,256	28,691	25,092
	Total	432,324	445,177	481,398	464,186	449,395	474,620	488,981	390,197	480,855
Barley	Old Land	388	446	210	460		65	62	181	180
	New Land	287	188	477	913	36	30		9	339
	Total	675	634	687	1,373	36	95	62	190	519
Broad bean	Old Land	14,772	19,350	14,760	12,975	16,211	10,943	15,842	10,749	8,996
	New Land	70	56	34	87	135	138	245	156	240
	Total	14,842	19,406	14,794	13,062	16,346	11,081	16,087	10,905	9,236
Lentil	Old Land	2,149	2,091	0	838	1,003	652	840	1,201	1,002
	New Land	4		0	0				8	11
	Total	2,153	2,091	0	838	1,003	652	840	1,209	1,013
Fenugreek (dry)	Old Land	370	440	1,098	1,048	611	618	1,264	1,884	1,036
	New Land	121	95	81	319	353	117	148	260	81
	Total	491	535	1,179	1,367	964	735	1,412	2,144	1,117
Chickpea	Old Land	9,862	8,956	11,112	11,315	8,051	6,949	5,003	38,746	5,438
	New Land	0			0		0			
	Total	9,862	8,956	11,112	11,315	8,051	6,949	5,003	38,746	5,438
Lupine	Old Land	205	123	223	216	249	141	63	41	130
	New Land	0			0	72	0			
	Total	205	123	223	216	321	141	63	41	130
Onion	Old Land	53,152	58,460	81,515	51,678	60,533	67,250	67,771	65,014	88,071
	New Land	5,096	7,179	8,463	10,285	7,704	8,487	12,776	13,158	21,350
	Total	58,248	65,639	89,978	61,963	68,237	75,737	80,547	78,172	109,421
Garlic	Old Land	5,576	3,491	4,349	9,343	6,149	5,721	2,622	6,395	11,304
	New Land	0			0	351	84	150	96	85
	Total	5,576	3,491	4,349	9,343	6,500	5,805	2,772	6,491	11,389
Sugar beet	Old Land	10,799	2,086	2,503	26,681	58,900	17,042	56,625	150,102	153,635
	New Land	0	8,883	506	2,409	2,923	4,240	7,970	18,307	4,754
	Total	10,799	10,969	3,009	29,090	61,823	21,282	64,595	168,409	158,389
Potatoes	Old Land					684	630			
	New Land						0			
	Total	0	0	0	0	684	630	0	0	0
Tomato	Old Land	188,033	165,411	178,550	186,943	188,959	122,438	124,028	121,467	122,179
	New Land	0			0		0	58,144	58,305	87,154
	Total	188,033	165,411	178,550	186,943	188,959	122,438	182,172	179,772	209,333
Other vegetables	Old Land							145,624		
	New Land							68,284		
	Total	0	0	0	0	0	0	213,908	0	0
Other crops	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Total	Old Land	3,397,921	3,545,851	3,291,015	3,422,923	3,533,048	3,140,066	3,289,374	3,175,917	3,170,392
	New Land	5,578	42,188	123,362	138,393	160,492	161,767	258,721	196,708	221,115
	Total	3,403,499	3,588,039	3,414,377	3,561,316	3,693,540	3,301,833	3,548,095	3,372,625	3,391,507

Crop Yield (t/fed) Winter Crop

Crop	Land	Assuit								
		2003	2004	2005	2006	2007	2008	2009	2010	2011
Long Clover	Old Land	30.85	31.21	31.95	32.47	32.03	31.69	31.50	30.39	29.04
	New Land			32.99	33.07	33.21	34.80	17.35	18.92	21.18
	Total	30.85	31.21	31.98	32.49	32.08	31.82	30.70	29.83	28.68
Flax	Old Land									
	New Land									
	Total									
Wheat	Old Land	2.93	3.00	3.00	2.89	2.84	2.83	2.97	2.37	2.99
	New Land		2.47	2.12	2.00	1.98	2.14	2.11	2.37	1.83
	Total	2.93	2.96	2.94	2.82	2.77	2.78	2.89	2.37	2.89
Barley	Old Land	1.68	1.59	2.10	2.21		1.38	1.29	1.29	1.50
	New Land	1.59	1.27	1.83	1.10	1.20	1.30		0.60	0.89
	Total	1.64	1.48	1.91	1.32	1.20	1.36	1.29	1.23	1.04
Broad Bean (dry, intercrop, green)	Old Land	1.21	1.22	1.28	1.30	1.29	1.29	1.33	1.11	1.16
	New Land	0.78	0.77	0.97	0.92	1.04	0.83	1.02	0.85	1.06
	Total	1.20	1.22	1.28	1.30	1.29	1.28	1.32	1.10	1.16
Lentil	Old Land	0.70	0.69	0.00	0.74	0.76	0.81	0.72	0.67	0.68
	New Land	0.67							0.80	0.73
	Total	0.70	0.69	0.00	0.74	0.76	0.81	0.72	0.67	0.68
Fenugreek (dry)	Old Land	0.78	0.81	0.85	0.83	0.83	0.77	0.82	0.74	0.74
	New Land	0.75	0.73	0.79	0.91	0.73	0.76	0.81	0.77	0.77
	Total	0.77	0.80	0.85	0.85	0.79	0.77	0.82	0.75	0.74
Chicpea	Old Land	0.81	0.83	0.87	0.87	0.89	0.90	0.89	5.32	0.85
	New Land									
	Total	0.81	0.83	0.87	0.87	0.89	0.90	0.89	5.32	0.85
Lupine	Old Land	0.96	1.01	0.98	0.95	0.92	0.61	5.25	0.75	0.79
	New Land					0.45				
	Total	0.96	1.01	0.98	0.95	0.74	0.61	5.25	0.75	0.79
Onion	Old Land	15.34	15.47	16.24	16.23	16.56	15.51	16.09	16.63	18.16
	New Land	12.40	11.97	13.00	13.88	12.00	14.34	12.84	11.16	11.13
	Total	15.02	14.99	15.87	15.79	15.88	15.37	15.47	15.36	16.17
Garlic	Old Land	12.73	13.43	13.51	12.49	12.89	12.97	12.55	13.24	12.55
	New Land					13.00	10.50	10.00	12.00	8.50
	Total	12.73	13.43	13.51	12.49	12.90	12.93	12.38	13.22	12.50
Sugar beet	Old Land	25.17	17.53	20.52	33.43	32.26	33.22	35.46	32.92	31.55
	New Land		15.21	18.07	26.77	25.42	28.27	22.20	27.53	22.75
	Total	25.17	15.60	20.06	32.76	31.85	32.10	33.02	32.24	31.19
Potatoes	Old Land					9.00	10.00			
	New Land									
	Total					9.00	10.00			
Tomato	Old Land	17.57	17.28	17.49	19.65	19.53	12.58	19.82	18.75	17.71
	New Land							17.67	16.01	14.84
	Total	17.57	17.28	17.49	19.65	19.53	12.58	19.08	17.76	16.39
Other vegetable	Old Land	0.00	0.00	0.00	0.00	0.00	0.00	81.45	0.00	
	New Land		0.00					69.68	0.00	
	Total	0.00	0.00	0.00	0.00	0.00	0.00	77.28	0.00	
Other crops	Old Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	New Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total	Old Land	11.96	12.54	11.71	12.18	12.54	11.46	12.27	11.53	11.85
	New Land	5.97	3.47	7.73	7.96	8.48	9.02	9.49	8.19	8.40
	Total	11.94	12.17	11.49	11.94	12.28	11.31	12.01	11.27	11.54

Cropped Area (fed) Summer Crop

Governorate	Land	Assuit							
		2003	2004	2005	2006	2007	2008	2009	2010
Rice	Old Land	0	19		55	149	194	13	
	New Land	0					0		
	Total	0	19	0	55	149	194	13	0
Maize (white)	Old Land	86339	84440	92022	92556	85407	96635	99387	87519
	New Land	1,300	2,740	2,914	1,601	1,707	2,412	3,083	1,407
	Total	87,639	87,180	94,936	94,157	87,114	99,047	102,470	88,926
Maize (corn)	Old Land	7439	16305	18211	17964	30689	31510	34084	46441
	New Land	0	544	450	68	398	784	769	695
	Total	7,439	16,849	18,661	18,032	31,087	32,294	34,853	47,136
Sorghum	Old Land	141101	121482	117034	126114	113755	113891	100116	101551
	New Land	4,150	4,486	4,891	5,345	6,265	6,967	5,343	4,270
	Total	145,251	125,968	121,925	131,459	120,020	120,858	105,459	105,821
Soybean	Old Land	376	1171	375	675	858	857	1126	1432
	New Land	0	0	0			0		
	Total	376	1,171	375	675	858	857	1,126	1,432
Peanut	Old Land	2186	2229	2145	1852	1804	2360	1482	2095
	New Land	1,038	1,846	2,031	1,433	1,161	1,544	2,587	1,794
	Total	3,224	4,075	4,176	3,285	2,965	3,904	4,069	3,889
Sesame	Old Land	2693	2427	2874	2777	2344	2066	2881	2285
	New Land	1,237	791	723	717	509	778	885	683
	Total	3,930	3,218	3,597	3,494	2,853	2,844	3,766	2,968
Sunflower	Old Land	9210	10555	5683	6799	5315	4890	6586	5326
	New Land	0	54	12			5	10	13
	Total	9,210	10,609	5,695	6,799	5,315	4,895	6,596	5,339
Summer onion	Old Land	0	0	0					
	New Land	0	0	0					
	Total	0	0	0	0	0	0	0	0
Summer Potatoes	Old Land	130	55	161	185	329	509	578	884
	New Land	0	0	0					
	Total	130	55	161	185	329	509	578	884
Summer Tomato	Old Land	2444	2946	3512	2824	3779	3575	3745	3807
	New Land	0	0	0				943	385
	Total	2,444	2,946	3,512	2,824	3,779	3,575	4,688	4,192
Other vegetables	Old Land	10388	9039	9440	11486	11472	9810	11753	12652
	New Land	525	300	874	866	315	665	1,718	1,503
	Total	10,913	9,339	10,314	12,352	11,787	10,475	13,471	14,155
Other crops	Old Land	13063	14150	13753	14001	13598	2729	16207	14943
	New Land	499	354	451	1,493	1,753	256	2,142	2,796
	Total	13,562	14,504	14,204	15,494	15,351	2,985	18,349	17,739
Total	Old Land	275369	264818	265210	277288	269499	281622	277958	278935
	New Land	8,749	11,115	12,346	11,523	12,108	15,811	17,480	13,546
	Total	284,118	275,933	277,556	288,811	281,607	297,433	295,438	292,481

Crop Production (t) Summer Crop

Governorate	Land	Assuit							
		2003	2004	2005	2006	2007	2008	2009	2010
Rice	Old Land		67		247	633	689	46	
	New Land						0		
	Total	0	67	0	247	633	689	46	0
Maize (white)	Old Land	276,797	299,420	327,874	338,873	278,643	321,000	346,813	240,397
	New Land	4,457	5,791	8,159	3,424	4,303	6,113	5,376	2,923
	Total	281,254	305,211	336,033	342,297	282,946	327,113	352,189	243,320
Maize (corn)	Old Land	24,098	53,879	63,993	55,839	102,667	104,170	119,035	
	New Land	0	1,371	1,196	180	1,046	1,670	2,121	
	Total	24,098	55,250	65,189	56,019	103,713	105,840	121,156	0
Sorghum	Old Land	348,501	297,245	294,502	321,334	292,802	283,961	249,075	230,376
	New Land	7,974	8,165	7,141	9,572	11,832	12,355	11,219	6,079
	Total	356,475	305,410	301,643	330,906	304,634	296,316	260,294	236,455
Soybean	Old Land	534	1,434	619	1,096	1,357	1,355	1,505	1,876
	New Land		0	0			0		
	Total	534	1,434	619	1,096	1,357	1,355	1,505	1,876
Peanut	Old Land	3,356	3,536	3,433	3,146	3,421	4,045	2,847	2,032
	New Land	1,539	2,426	2,931	2,129	1,689	2,277	3,295	2,292
	Total	4,895	5,962	6,364	5,275	5,110	6,322	6,142	4,324
Sesame	Old Land	1,452	1,474	1,535	1,514	1,287	1,147	1,536	1,207
	New Land	534	400	373	380	208	382	501	355
	Total	1,986	1,874	1,908	1,894	1,495	1,529	2,037	1,562
Sunflower	Old Land	8,935	11,042	5,357	5,555	5,104	5,126	7,537	5,944
	New Land	0	40	12			20	20	9
	Total	8,935	11,082	5,369	5,555	5,104	5,146	7,557	5,953
Summer onion	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Summer Potatoes	Old Land	1,535	642	1,957	2,316	3,902	6,948	8,460	12,588
	New Land	0	0	0					
	Total	1,535	642	1,957	2,316	3,902	6,948	8,460	12,588
Summer Tomato	Old Land	36,544	41,649	54,119	43,007	58,198	56,186	61,494	58,416
	New Land	0	0	0				13,013	3,176
	Total	36,544	41,649	54,119	43,007	58,198	56,186	74,507	61,592
Other vegetables	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Other crop	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Total	Old Land	701,752	710,388	753,389	772,927	748,014	784,627	798,348	552,836
	New Land	14,504	18,193	19,812	15,685	19,078	22,817	35,545	14,834
	Total	716,256	728,581	773,201	788,612	767,092	807,444	833,893	567,670

Crop Yield (t/fed) Summer Crop

Crop	Land	Assuit							
		2003	2004	2005	2006	2007	2008	2009	2010
Rice	Old Land		3.53		4.49	4.25	3.55	3.54	
	New Land								
	Total		3.53		4.49	4.25	3.55	3.54	
Maize (white)	Old Land	3.21	3.55	3.56	3.66	3.26	3.32	3.49	2.75
	New Land	3.43	2.11	2.80	2.14	2.52	2.53	1.74	2.08
	Total	3.21	3.50	3.54	3.64	3.25	3.30	3.44	2.74
Maize (corn)	Old Land		3.30	3.51	3.11	3.35	3.31	3.49	0.00
	New Land		2.52	2.66	2.65	2.63	2.13	2.76	0.00
	Total		3.28	3.49	3.11	3.34	3.28	3.48	0.00
Sorghum	Old Land	2.47	2.45	2.52	2.55	2.57	2.49	2.49	2.27
	New Land	1.92	1.82	1.46	1.79	1.89	1.77	2.10	1.42
	Total	2.45	2.42	2.47	2.52	2.54	2.45	2.47	2.23
Soybean	Old Land	1.42	1.22	1.65	1.62	1.58	1.58	1.34	1.31
	New Land								
	Total	1.42	1.22	1.65	1.62	1.58	1.58	1.34	1.31
Peanut	Old Land	1.54	1.59	1.60	1.70	1.90	1.71	1.92	0.97
	New Land	1.48	1.31	1.44	1.49	1.45	1.47	1.27	1.28
	Total	1.52	1.46	1.52	1.61	1.72	1.62	1.51	1.11
Sesame	Old Land	0.54	0.61	0.53	0.55	0.55	0.56	0.53	0.53
	New Land	0.43	0.51	0.52	0.53	0.41	0.49	0.57	0.52
	Total	0.51	0.58	0.53	0.54	0.52	0.54	0.54	0.53
Sunflower	Old Land	0.97	1.05	0.94	0.82	0.96	1.05	1.14	1.12
	New Land		0.74	1.00			4.00	2.00	0.69
	Total	0.97	1.04	0.94	0.82	0.96	1.05	1.15	1.12
Summer onion	Old Land								
	New Land								
	Total								
Summer Potatoes	Old Land	11.81	11.67	12.16	12.52	11.86	13.65	14.64	14.24
	New Land								
	Total	11.81	11.67	12.16	12.52	11.86	13.65	14.64	14.24
Summer tomato	Old Land	14.95	14.14	15.41	15.23	15.40	15.72	16.42	15.34
	New Land							13.80	8.25
	Total	14.95	14.14	15.41	15.23	15.40	15.72	15.89	14.69
Other vegetables	Old Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	New Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other crops	Old Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	New Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	Old Land	2.55	2.68	2.84	2.79	2.78	2.79	2.87	1.98
	New Land	1.66	1.64	1.60	1.36	1.58	1.44	2.03	1.10
	Total	2.52	2.64	2.79	2.73	2.72	2.71	2.82	1.94

Cropped Area 2005(fed) Nile Crop

Crop	Land	Assuit							
		2003	2004	2005	2006	2007	2008	2009	2010
Maize	Old Land	0	0						
	New Land	0	0						
	Total	0	0	0	0	0	0	0	0
Sorghum	Old Land	0	0				0		
	New Land	0	0				0		
	Total	0	0	0	0	0	0	0	0
Rice	Old Land	0	0	0					
	New Land	0	0	0					
	Total	0	0	0	0	0	0	0	0
Nile Onion	Old Land	1,864	2,926	1,127	2,870	4,296	2,491	2,296	2,784
	New Land	438	1,082	751	726				1,390
	Total	2,302	4,008	1,878	3,596	4,296	2,491	2,296	4,174
Corn	Old Land	0	16,305	0					
	New Land	0	544	0					
	Total	0	16,849	0	0	0	0	0	0
Nile Potatoes	Old Land	512	748	588	672	842	1,042	1,292	663
	New Land	0	0	0				10	
	Total	512	748	588	672	842	1,042	1,302	663
Nile Tomato	Old Land	0	0						
	New Land	0	0						
	Total	0	0	0	0	0	0	0	0
Other Vegetables	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Other Crops	Old Land			0					
	New Land			0					
	Total	0	0	0	0	0	0	0	0
Total	Old Land	2,376	19,979	1,715	3,542	5,138	3,533	3,588	3,447
	New Land	438	1,626	751	726	0	0	10	1,390
	Total	2,814	21,605	2,466	4,268	5,138	3,533	3,598	4,837

Crop Production (t) Nile Crop

Crop	Land	Assuit							
		2003	2004	2005	2006	2007	2008	2009	2010
Nile Maize	Old Land	0	0						
	New Land	0	0						
	Total	0	0	0	0	0	0	0	0
Nile Sorghum	Old Land	0	0						
	New Land	0	0						
	Total	0	0	0	0	0	0	0	0
Rice	Old Land	0	0						
	New Land	0	0						
	Total	0	0	0	0	0	0	0	0
Nile Onion	Old Land	35,735	55,059	20,618	35,166	79,834	38,566	44,750	52,563
	New Land	6,545	16,123	10,364	10,017				18,716
	Total	42,280	71,182	30,982	45,183	79,834	38,566	44,750	71,279
Corn	Old Land	0	53,879						
	New Land	0	1,371						
	Total	0	55,250	0	0	0	0	0	0
Nile Potato	Old Land	5,503	7,711	7,246	8,891	10,153	13,701	17,769	8,928
	New Land	0	0	0				85	
	Total	5,503	7,711	7,246	8,891	10,153	13,701	17,854	8,928
Nile Tomato	Old Land	0	0						
	New Land	0	0						
	Total	0	0	0	0	0	0	0	0
Other Vegetables	Old Land								
	New Land								
	Total		0	0	0	0	0	0	0
Other Crops	Old Land								
	New Land								
	Total		0	0	0	0	0	0	0
Total	Old Land	41,238	116,649	27,864	44,057	89,987	52,267	62,519	61,491
	New Land	6,545	17,494	10,364	10,017	0	0	85	18,716
	Total	47,783	134,143	38,228	54,074	89,987	52,267	62,604	80,207

Crop Yield (t/fed) Nile Crop

Crop	Land	Assuit							
		2003	2004	2005	2006	2007	2008	2009	2010
Maize	Old Land								
	New Land								
	Total								
Sorghum	Old Land								
	New Land								
	Total								
Rice	Old Land								
	New Land								
	Total								
Nile onion	Old Land	19.17	18.82	18.29	12.25	18.58	15.48	19.49	18.88
	New Land	14.94	14.90	13.80	13.80				13.46
	Total	18.37	17.76	16.50	12.56	18.58	15.48	19.49	17.08
Corn	Old Land		3.30						
	New Land		2.52						
	Total		3.28						
Nile potatoes	Old Land	10.75	10.31	12.32	13.23	12.06	13.15	13.75	13.47
	New Land							8.50	
	Total	10.75	10.31	12.32	13.23	12.06	13.15	13.71	13.47
Nile tomato	Old Land								
	New Land								
	Total								
Other vegetable	Old Land								
	New Land								
	Total								
Other crop	Old Land								
	New Land								
	Total								
Total	Old Land	17.36	5.84	16.25	12.44	17.51	14.79	17.42	17.84
	New Land	14.94	10.76	13.80	13.80			8.50	13.46
	Total	16.98	6.21	15.50	12.67	17.51	14.79	17.40	16.58

Cropped Area (fed) Permanent Crop

Crop	Land	Assuit							
		2003	2004	2005	2006	2007	2008	2009	2010
Sugar cane	Old Land	2,718	2,613	2,165	2,048	2,342	2,172	2,015	1,988
	New Land	0		0	38	38	36	134	191
	Total	2,718	2,613	2,165	2,086	2,380	2,208	2,149	2,179
Cotton	Old Land	17,884	24,138	27,614	17,031	19,771	6,984	8,328	6,465
	New Land	0		0					
	Total	17,884	24,138	27,614	17,031	19,771	6,984	8,328	6,465
Orchards	Old Land	24,407	25,230	25,364	25,515	28,535	28,573	19,490	19,878
	New Land	10		0		24		12,153	12,996
	Total	24,417	25,230	25,364	25,515	28,559	28,573	31,643	32,874
Palms	Old Land	600	450	211	345	351	364	364	364
	New Land	0							
	Total	600	450	211	345	351	364	364	364
Alfalfa	Old Land	0		66	180		0	210	200
	New Land	0		235	205	681	576	2,683	403
	Total	0	0	301	385	681	576	2,893	603
Total	Old Land	45,609	52,431	55,420	45,119	50,999	38,093	30,407	28,895
	New Land	10	0	235	243	743	612	14,970	13,590
	Total	45,619	52,431	55,655	45,362	51,742	38,705	45,377	42,485

Crop production (t) Permanent Crop

Crop	Land	Assuit							
		2003	2004	2005	2006	2007	2008	2009	2010
Sugar cane	Old Land	106251	103180	58962	80980	93711	82282	72671	71875
	New Land	0		0	1,520	1,444	1,296	4,020	7,114
	Total	106,251	103,180	58,962	82,500	95,155	83,578	76,691	78,989
Cotton	Old Land	110881	159987	175522	111752	141486	8121		5205
	New Land	0							
	Total	110,881	159,987	175,522	111,752	141,486	8,121	7,813	5,205
Orchards	Old Land	163185	178310	192132	202815	199549	202517	169879	166771
	New Land	0						44,285	48,687
	Total	163,185	178,310	192,132	202,815	199,549	202,517	214,164	215,458
Palms	Old Land	29121	33570	35912	36808	30152	34004	34463	37825
	New Land	0							
	Total	29,121	33,570	35,912	36,808	30,152	34,004	34,463	37,825
Alfalfa	Old Land	0		990	2700		0	3780	3000
	New Land	0		2,575	2,698	8,042	4,380	23,208	7,248
	Total	0	0	3,565	5,398	8,042	4,380	26,988	10,248
Total	Old Land	409438	475047	463518	435055	464898	326924	280793	284676
	New Land	0	0	2,575	4,218	9,486	5,676	71,513	63,049
	Total	409,438	475,047	466,093	439,273	474,384	332,600	352,306	347,725

Crop Yield (t/fed) Permanent Crop

Crop	Land		Assuit						
		2003	2004	2005	2006	2007	2008	2009	2010
Sugar cane	Old Land	39.09	39.49	27.23	39.54	40.01	37.88	36.07	36.15
	New Land				40.00	38.00	36.00	30.00	37.25
	Total	39.09	39.49	27.23	39.55	39.98	37.85	35.69	36.25
Cotton	Old Land	6.20	6.63	6.36	6.56	7.16	1.16	0.00	0.81
	New Land								
	Total	6.20	6.63	6.36	6.56	7.16	1.16	0.94	0.81
Orchards	Old Land	6.69	7.07	7.57	7.95	6.99	7.09	8.72	8.39
	New Land	0.00				0.00		3.64	3.75
	Total	6.68	7.07	7.57	7.95	6.99	7.09	6.77	6.55
Palms	Old Land	48.54	74.60	170.20	106.69	85.90	93.42	94.68	103.91
	New Land								
	Total	48.54	74.60	170.20	106.69	85.90	93.42	94.68	103.91
Alfalfa	Old Land			15.00	15.00			18.00	15.00
	New Land			10.96	13.16	11.81	7.60	8.65	17.99
	Total			11.84	14.02	11.81	7.60	9.33	17.00
Total	Old Land	8.98	9.06	8.36	9.64	9.12	8.58	9.23	9.85
	New Land	0.00		10.96	17.36	12.77	9.27	4.78	4.64
	Total	8.98	9.06	8.37	9.68	9.17	8.59	7.76	8.18

Winter Vegetable Cropped Area (fed)

Crop	Land	Assuit								
		2003	2004	2005	2006	2007	2008	2009	2010	2011
Tomato	Old Land	10704	9575	10209	9513	9676	9729	6258	6479	6898
	New Land	0			0		0	3,291	3,642	5,872
	Total	10,704	9,575	10,209	9,513	9,676	9,729	9,549	10,121	12,770
Squash	Old Land	38	21	78	88	110	56	54	15	5
	New Land	0			0		0	17	27	
	Total	38	21	78	88	110	56	71	42	5
green Beans	Old Land	2			19	26				
	New Land	0			0				0	
	Total	2	0	0	19	26	0	0	0	0
Green Kidney beans	Old Land	0								
	New Land	0							0	
	Total	0	0	0	0	0	0	0	0	0
green peas	Old Land	29	47	136	27	48	17	13	7	13
	New Land	0	35		0		0		15	
	Total	29	82	136	27	48	17	13	22	13
Cabbage	Old Land	488	514	386	534	395	445	303	539	641
	New Land	0			0		0	15	20	
	Total	488	514	386	534	395	445	318	559	641
Caulifllower	Old Land	215	136	208	203	88	187	187	346	227
	New Land	0			0		0	15	20	
	Total	215	136	208	203	88	187	202	366	227
Eggplant	Old Land	403	378	550	252	556	517	168	378	586
	New Land	0			0		0	589	670	636
	Total	403	378	550	252	556	517	757	1,048	1,222
pepper	Old Land	396	510	527	443	715	509	144	381	444
	New Land	0			0		0	316	317	330
	Total	396	510	527	443	715	509	460	698	774
Jews mallow	Old Land	0								
	New Land	0							0	0
	Total	0	0	0	0	0	0	0	0	0
Spinach	Old Land	15	10	7	5	10				
	New Land	0			0				0	0
	Total	15	10	7	5	10	0	0	0	0
Artichoke	Old Land	0								
	New Land	0							0	0
	Total	0	0	0	0	0	0	0	0	0
Taro	Old Land	0	905	553	729	817	666	772	388	605
	New Land	0			0		0		0	0
	Total	0	905	553	729	817	666	772	388	605
Raddish	Old Land	10	12	6	9	9	9	8		
	New Land	0					0		0	0
	Total	10	12	6	9	9	9	8	0	0
Turnip	Old Land	34	41	70	35	28	70	98	131	79
	New Land	0			0		0		0	
	Total	34	41	70	35	28	70	98	131	79
Lettuce	Old Land	0								
	New Land	0							0	0
	Total	0	0	0	0	0	0	0	0	0
Carrot	Old Land	0					3			
	New Land	0					0		0	0
	Total	0	0	0	0	0	3	0	0	0
Parsley	Old Land	0		2						
	New Land	0							0	0
	Total	0	0	2	0	0	0	0	0	0
Rocket	Old Land	7	8	5	9	7	7	9		
	New Land	0			0		0		0	0
	Total	7	8	5	9	7	7	9	0	0
Egyptian Leek	Old Land	0								
	New Land	0							0	0
	Total	0	0	0	0	0	0	0	0	0
Sweet Potato	Old Land	0								
	New Land	0							0	0
	Total	0	0	0	0	0	0	0	0	0
Strawberry	Old Land	7	12			38				
	New Land	0							0	0
	Total	7	12	0	0	38	0	0	0	0
Dill	Old Land	0		4						
	New Land	0							0	0
	Total	0	0	4	0	0	0	0	0	0
Green Corriander	Old Land	0								
	New Land	0							0	0
	Total	0	0	0	0	0	0	0	0	0
Egyptian mallow	Old Land	0								
	New Land	0							0	0
	Total	0	0	0	0	0	0	0	0	0
Cucumber	Old Land	0			20	8	175	10	50	2
	New Land	0			0		0	28	0	0
	Total	0	0	0	20	8	175	38	50	2
Chard	Old Land	0								
	New Land	0							0	0
	Total	0	0	0	0	0	0	0	0	0
Beet	Old Land	0								
	New Land	0							0	0
	Total	0	0	0	0	0	0	0	0	0
Pumpkin	Old Land	0								
	New Land	0							0	0
	Total	0	0	0	0	0	0	0	0	0
Celery	Old Land	0								
	New Land	0							0	0
	Total	0	0	0	0	0	0	0	0	0
Total	Old Land	12348	12169	12741	11886	12531	12390	8024	8714	9500
	New Land	0	35	0	0	0	0	4,271	4,711	6,838
	Total	12,348	12,204	12,741	11,886	12,531	12,390	12,295	13,425	16,338

Winter Vegetable Crop Production (t)

Crop	Land	Assuit								
		2003	2004	2005	2006	2007	2008	2009	2010	2011
Tomato	Old Land	188033	165411	178550	186943	188959	122438	124028	121467	122179
	New Land	0			0		0	58144	58305	87154
	Total	188,033	165,411	178,550	186,943	188,959	122,438	182,172	179,772	209,333
Squash	Old Land	342	191	736	828	1048	545	539	174	50
	New Land	0			0		0	162	243	
	Total	342	191	736	828	1,048	545	701	417	50
Green Beans	Old Land	14			38	208				
	New Land	0			0				0	
	Total	14	0	0	38	208	0	0	0	0
Green Kidny Beans	Old Land	0								
	New Land	0							0	
	Total	0	0	0	0	0	0	0	0	0
Green Peas	Old Land	201	210	681	172	330	116	92	35	72
	New Land	0	105		0		0		30	
	Total	201	315	681	172	330	116	92	65	72
Cabbage	Old Land	6922	7212	5884	8059	5551	7448	5275	8353	9516
	New Land	0			0		0	180	240	
	Total	6,922	7,212	5,884	8,059	5,551	7,448	5,455	8,593	9,516
Cauliflower	Old Land	2428	1524	2343	2302	1013	2311	2391	4442	3023
	New Land	0			0		0	150	180	0
	Total	2,428	1,524	2,343	2,302	1,013	2,311	2,541	4,622	3,023
Eggplant	Old Land	5674	5039	6887	3221	7161	2951	1223	3152	5745
	New Land	0			0		0	7374	6237	8515
	Total	5,674	5,039	6,887	3,221	7,161	2,951	8,597	9,389	14,260
Pepper	Old Land	3552	4319	5232	4616	7825	4764	895	2831	3489
	New Land	0			0		0	2134	2556	3110
	Total	3,552	4,319	5,232	4,616	7,825	4,764	3,029	5,387	6,599
Jews Mallow	Old Land	0								
	New Land	0							0	0
	Total	0	0	0	0	0	0	0	0	0
Spinach	Old Land	133	89	65	45	110				
	New Land	0			0				0	0
	Total	133	89	65	45	110	0	0	0	0
Artichoke	Old Land	0								
	New Land	0							0	0
	Total	0	0	0	0	0	0	0	0	0
Taro	Old Land	0	13572	8295	10935	12660	7852	9882	4679	7865
	New Land	0			0		0		0	0
	Total	0	13,572	8,295	10,935	12,660	7,852	9,882	4,679	7,865
Radish	Old Land	59		37	45	63	52	46		
	New Land	0			0		0		0	0
	Total	59	0	37	45	63	52	46	0	0
Turnip	Old Land	541	658	1152	581	471	1074	1138	1403	679
	New Land	0			0		0		0	0
	Total	541	658	1,152	581	471	1,074	1,138	1,403	679
Lettuce	Old Land	0								
	New Land	0							0	0
	Total	0	0	0	0	0	0	0	0	0
Carrot	Old Land	0					18			
	New Land	0					0		0	0
	Total	0	0	0	0	0	18	0	0	0
Parsley	Old Land	0		10						
	New Land	0							0	0
	Total	0	0	10	0	0	0	0	0	0
Rocket	Old Land	28	38	24	45	35	28	38		
	New Land	0			0		0		0	0
	Total	28	38	24	45	35	28	38	0	0
Egyptian Leek	Old Land	0								
	New Land	0							0	0
	Total	0	0	0	0	0	0	0	0	0
Sweet potato	Old Land	0								
	New Land	0							0	0
	Total	0	0	0	0	0	0	0	0	0
Strawberry	Old Land	84	150			228				
	New Land	0							0	0
	Total	84	150	0	0	228	0	0	0	0
Dill	Old Land	0		14						
	New Land	0							0	0
	Total	0	0	14	0	0	0	0	0	0
Green coriander	Old Land	0								
	New Land	0							0	0
	Total	0	0	0	0	0	0	0	0	0
Egyptian mallow	Old Land	0								
	New Land	0							0	0
	Total	0	0	0	0	0	0	0	0	0
Cucumber	Old Land	0			140	64	575	55	300	13
	New Land	0			0		0	140	0	0
	Total	0	0	0	140	64	575	195	300	13
Chard	Old Land	0								
	New Land	0							0	0
	Total	0	0	0	0	0	0	0	0	0
Beet	Old Land	0								
	New Land	0							0	0
	Total	0	0	0	0	0	0	0	0	0
Pumpkin	Old Land	0								
	New Land	0							0	0
	Total	0	0	0	0	0	0	0	0	0
Celery	Old Land	0								
	New Land	0							0	0
	Total	0	0	0	0	0	0	0	0	0
Total	Old Land	208011	198413	209910	217970	225726	150172	145602	146836	152631
	New Land	0	105	0	0	0	0	68284	67791	98779
	Total	208,011	198,518	209,910	217,970	225,726	150,172	213,886	214,627	251,410

Winter Vegetable Crop Yield (t/fed)

Crop	Land	Assuit								
		2003	2004	2005	2006	2007	2008	2009	2010	2011
Tomato	Old Land	17.57	17.28	17.49	19.65	19.53	12.58	19.82	18.75	17.71
	New Land							17.67	16.01	14.84
	Total	17.57	17.28	17.49	19.65	19.53	12.58	19.08	17.76	16.39
Squash	Old Land	9.00	9.10	9.44	9.41	9.53	9.73	9.98	11.60	10.00
	New Land							9.53	9.00	
	Total	9.00	9.10	9.44	9.41	9.53	9.73	9.87	9.93	10.00
Green beans	Old Land	7.00			2.00	8.00				
	New Land									
	Total	7.00			2.00	8.00				
Green kidney beans	Old Land									
	New Land									
	Total									
Green peas	Old Land	6.93	4.47	5.01	6.37	6.88	6.82	7.08	5.00	5.54
	New Land		3.00						2.00	
	Total	6.93	3.84	5.01	6.37	6.88	6.82	7.08	2.95	5.54
Cabbage	Old Land		14.03	15.24	15.09	14.05	16.74	17.41	15.50	14.85
	New Land							12.00	12.00	
	Total		14.03	15.24	15.09	14.05	16.74	17.15	15.37	14.85
Cauliflower	Old Land	11.29	11.21	11.26	11.34	11.51	12.36	12.79	12.84	13.32
	New Land							10.00	9.00	
	Total	11.29	11.21	11.26	11.34	11.51	12.36	12.58	12.63	13.32
Eggplant	Old Land	14.08	13.33	12.52	12.78	12.88	5.71	7.28	8.34	9.80
	New Land							12.52	9.31	13.39
	Total	14.08	13.33	12.52	12.78	12.88	5.71	11.36	8.96	11.67
Pepper	Old Land	8.97	8.47	9.93	10.42	10.94	9.36	6.22	7.43	7.86
	New Land							6.75	8.06	9.42
	Total	8.97	8.47	9.93	10.42	10.94	9.36	6.58	7.72	8.53
Jews mallow	Old Land									
	New Land									
	Total									
Spinach	Old Land	8.87	8.90	9.29	9.00	11.00				
	New Land									
	Total	8.87	8.90	9.29	9.00	11.00				
Artichoke	Old Land									
	New Land									
	Total									
Taro	Old Land		15.00	15.00	15.00	15.50	11.79	12.80	12.06	13.00
	New Land									
	Total		15.00	15.00	15.00	15.50	11.79	12.80	12.06	13.00
Radish	Old Land	5.90	0.00	6.17	5.00	7.00	5.78	5.75		
	New Land									
	Total	5.90	0.00	6.17	5.00	7.00	5.78	5.75		
Turnip	Old Land	15.91	16.05	16.46	16.60	16.82	15.34	11.61	10.71	8.59
	New Land									
	Total	15.91	16.05	16.46	16.60	16.82	15.34	11.61	10.71	8.59
Lettuce	Old Land									
	New Land									
	Total									
Carrot	Old Land						6.00			
	New Land									
	Total						6.00			
Parsley	Old Land			5.00						
	New Land									
	Total			5.00						
Rocket	Old Land	4.00	4.75	4.80	5.00	5.00	4.00	4.22		
	New Land									
	Total	4.00	4.75	4.80	5.00	5.00	4.00	4.22		
Egyptian leek	Old Land									
	New Land									
	Total									
Sweet potato	Old Land									
	New Land									
	Total									
Straw berry	Old Land	12.00	12.50			6.00				
	New Land									
	Total	12.00	12.50			6.00				
Dill	Old Land			3.50						
	New Land									
	Total			3.50						
Green coriander	Old Land									
	New Land									
	Total									
Egyptian mallow	Old Land									
	New Land									
	Total									
Cucumber	Old Land				7.00	8.00	3.29	5.50	6.00	6.50
	New Land							5.00		
	Total				7.00	8.00	3.29	5.13	6.00	6.50
Chard	Old Land									
	New Land									
	Total									
Beet	Old Land									
	New Land									
	Total									
Pumpkin	Old Land									
	New Land									
	Total									
Celery	Old Land									
	New Land									
	Total									
Total	Old Land	16.85	16.30	16.48	18.34	18.01	12.12	18.15	16.85	16.07
	New Land		3.00					15.99	14.39	14.45
	Total	16.85	16.27	16.48	18.34	18.01	12.12	17.40	15.99	15.39

Summer Vegetable Cropped Area (fed)

Crop	Land	Assuit							
		2003	2004	2005	2006	2007	2008	2009	2010
Tomato	Old Land	2444	2946	3512	2824	3779	3575	3745	3807
	New Land	0		0				943	385
	Total	2,444	2,946	3,512	2,824	3,779	3,575	4,688	4,192
Squash	Old Land	18		5		6			
	New Land	0		0					
	Total	18	0	5	0	6	0	0	0
Green Beans	Old Land	0			69				
	New Land	0							
	Total	0	0	0	69	0	0	0	0
Green kidney beans	Old Land	2342	2247						
	New Land	0							
	Total	2,342	2,247	0	0	0	0	0	0
Dry kidney beans	Old Land	0		1717	1716	1989	1573	1596	1391
	New Land	0		0				5	11
	Total	0	0	1,717	1,716	1,989	1,573	1,601	1,402
Cabbage	Old Land	123	122	139	107	58	241	167	104
	New Land	0		0					
	Total	123	122	139	107	58	241	167	104
Eggplant	Old Land	532	559	597	587	640	843	726	869
	New Land	0		0				225	81
	Total	532	559	597	587	640	843	951	950
Pepper	Old Land	906	679	856	917	619	658	767	971
	New Land	0		60				198	109
	Total	906	679	916	917	619	658	965	1,080
okra	Old Land	905	850	937	603	916	852	870	1147
	New Land	0		0				31	
	Total	905	850	937	603	916	852	901	1,147
Jews mallow	Old Land	507	425	541	689	366	395	607	726
	New Land	0		0				8	
	Total	507	425	541	689	366	395	615	726
Sweet mallow	Old Land	11	7	38	4				
	New Land	0		0					
	Total	11	7	38	4	0	0	0	0
Taro	Old Land	1958	1646	1541	1375	1394	1740	1336	1879
	New Land	0		0					
	Total	1,958	1,646	1,541	1,375	1,394	1,740	1,336	1,879
Radish	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Parsley	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Rocket	Old Land	0						12	
	New Land	0							
	Total	0	0	0	0	0	0	12	0
Egyptian Leek	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Lettuce	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Dill	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Spinach	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Purslane	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Water melon	Old Land	610	329	143	70	251		2	113
	New Land	0		0				348	253
	Total	610	329	143	70	251	0	350	366
Sweet melon	Old Land	889	527	1064	1430	1301	1322	1529	1597
	New Land	0		0				10	
	Total	889	527	1,064	1,430	1,301	1,322	1,539	1,597
Cucumber	Old Land	592	1004	393	454	319	243	712	461
	New Land	0		0				43	14
	Total	592	1,004	393	454	319	243	755	475
Snake cucumber	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Cantalope	Old Land	31	4	101	23	378	419	465	
	New Land	0		0				43	50
	Total	31	4	101	23	378	419	508	50
Melon (shahd)	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Melon (quoz)	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Total	Old Land	11868	11345	11584	10868	12016	11861	12534	13065
	New Land	0	0	60	0	0	0	1,854	903
	Total	11,868	11,345	11,644	10,868	12,016	11,861	14,388	13,968

Summer Vegetable Production (t)

Crop	Land	Assuit							
		2003	2004	2005	2006	2007	2008	2009	2010
Tomato	Old Land	36,544	41,649	54,119	43,007	58,198	56,186	61,494	58,416
	New Land	0		0				13,013	3,176
	Total	36,544	41,649	54,119	43,007	58,198	56,186	74,507	61,592
Squash	Old Land	176		35		24			
	New Land	0		0					
	Total	176	0	35	0	24	0	0	0
Green Beans	Old Land	0			344				
	New Land	0							
	Total	0	0	0	344	0	0	0	0
Green Kidney Beans	Old Land	3,627	3,677						
	New Land	0							
	Total	3,627	3,677	0	0	0	0	0	0
Dry Kidney Beans	Old Land	0		2,577	2,322	2,097	1,222	1,357	1,455
	New Land	0		0				5	11
	Total	0	0	2,577	2,322	2,097	1,222	1,362	1,466
Cabbage	Old Land	836	866	1,024	846	462	1,755	1,976	732
	New Land	0		0					
	Total	836	866	1,024	846	462	1,755	1,976	732
Eggplant	Old Land	5,549	5,339	5,438	5,223	6,092	8,756	8,285	9,830
	New Land	0		0				2,723	945
	Total	5,549	5,339	5,438	5,223	6,092	8,756	11,008	10,775
Pepper	Old Land	6,833	5,744	6,206	6,862	5,056	6,244	9,316	10,437
	New Land	0		0				2,257	762
	Total	6,833	5,744	6,206	6,862	5,056	6,244	11,573	11,199
Okra	Old Land	6,492	5,824	6,511	4,027	6,088	5,165	4,752	5,951
	New Land	0		0				130	
	Total	6,492	5,824	6,511	4,027	6,088	5,165	4,882	5,951
Jews Mallow	Old Land	5,290	4,045	5,025	6,230	3,314	3,435	3,936	4,029
	New Land	0		0				40	
	Total	5,290	4,045	5,025	6,230	3,314	3,435	3,976	4,029
Sweet potato	Old Land	107	85	456	51				
	New Land	0		0					
	Total	107	85	456	51	0	0	0	0
Taro	Old Land	29,902	26,999	25,555	22,536	23,323	28,109	22,068	15,840
	New Land	0		0				22	
	Total	29,902	26,999	25,555	22,536	23,323	28,109	22,090	15,840
Radish	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Parsley	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Rocket	Old Land	0						48	
	New Land	0							
	Total	0	0	0	0	0	0	48	0
Egyptian Leek	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Lettuce	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Dill	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Spinach	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Purslane	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Watermelon (total)	Old Land	6,497	3,917	1,582	727	2,142		11	1,017
	New Land	0		0				2,366	1,790
	Total	6,497	3,917	1,582	727	2,142	0	2,377	2,807
Sweet melon	Old Land	9,619	5,152	9,735	12,456	13,775	14,576	18,608	18,169
	New Land	0		0				80	
	Total	9,619	5,152	9,735	12,456	13,775	14,576	18,688	18,169
Cucumber	Old Land	7,465	9,402	3,674	4,731	3,456	1,912	4,762	3,372
	New Land	0		0				215	70
	Total	7,465	9,402	3,674	4,731	3,456	1,912	4,977	3,442
Snake Cucumber	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Cantalope	Old Land	184	38	698	190	3,294	2,031	3,790	
	New Land	0		0				297	255
	Total	184	38	698	190	3,294	2,031	4,087	255
Melon (shahd)	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Melon (quoz)	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Total	Old Land	119,121	112,737	122,635	109,552	127,321	129,391	140,403	129,248
	New Land	0	0	0	0	0	0	21,148	7,009
	Total	119,121	112,737	122,635	109,552	127,321	129,391	161,551	136,257

Summer Vegetable Yield (t/fed)

Crop	Land	Assuit							
		2003	2004	2005	2006	2007	2008	2009	2010
Tomato	Old Land	14.95	14.14	15.41	15.23	15.40	15.72	16.42	15.34
	New Land							13.80	8.25
	Total	14.95	14.14	15.41	15.23	15.40	15.72	15.89	14.69
Squash	Old Land	9.78		7.00		4.00			
	New Land								
	Total	9.78		7.00		4.00			
Green beans	Old Land				4.99				
	New Land								
	Total				4.99				
green kidney beans	Old Land	1.55	1.64						
	New Land								
	Total	1.55	1.64						
Dry kidney beans	Old Land			1.50	1.35	1.05	0.78	0.85	1.05
	New Land							1.00	1.00
	Total			1.50	1.35	1.05	0.78	0.85	1.05
Cabbage	Old Land	6.80	7.10	7.37	7.91	7.97	7.28	11.83	7.04
	New Land								
	Total	6.80	7.10	7.37	7.91	7.97	7.28	11.83	7.04
Eggplant	Old Land	10.43	9.55	9.11	8.90	9.52	10.39	11.41	11.31
	New Land							12.10	11.67
	Total	10.43	9.55	9.11	8.90	9.52	10.39	11.58	11.34
Pepper	Old Land	7.54	8.46	7.25	7.48	8.17	9.49	12.15	10.75
	New Land			0.00				11.40	6.99
	Total	7.54	8.46	6.78	7.48	8.17	9.49	11.99	10.37
Okra	Old Land	7.17	6.85	6.95	6.68	6.65	6.06	5.46	5.19
	New Land							4.19	
	Total	7.17	6.85	6.95	6.68	6.65	6.06	5.42	5.19
Jews mallow	Old Land	10.43	9.52	9.29	9.04	9.05	8.70	6.48	5.55
	New Land							5.00	
	Total	10.43	9.52	9.29	9.04	9.05	8.70	6.47	5.55
Sweet mallow	Old Land	9.73	12.14	12.00	12.75				
	New Land								
	Total	9.73	12.14	12.00	12.75				
Taro	Old Land	15.27	16.40	16.58	16.39	16.73	16.15	16.52	8.43
	New Land								
	Total	15.27	16.40	16.58	16.39	16.73	16.15	16.53	8.43
Radish	Old Land								
	New Land								
	Total								
Parsley	Old Land								
	New Land								
	Total								
Rocket	Old Land							4.00	
	New Land								
	Total							4.00	
Egyptian leek	Old Land								
	New Land								
	Total								
Lettuce	Old Land								
	New Land								
	Total								
Dill	Old Land								
	New Land								
	Total								
Spinach	Old Land								
	New Land								
	Total								
Purslane	Old Land								
	New Land								
	Total								
Water melon	Old Land	10.65	11.91	11.06	10.39	8.53		5.50	9.00
	New Land							6.80	7.08
	Total	10.65	11.91	11.06	10.39	8.53		6.79	7.67
Sweet melon	Old Land	10.82	9.78	9.15	8.71	10.59	11.03	12.17	11.38
	New Land							8.00	
	Total	10.82	9.78	9.15	8.71	10.59	11.03	12.14	11.38
Cucumber	Old Land	12.61	9.36	9.35	10.42	10.83	7.87	6.69	7.31
	New Land							5.00	5.00
	Total	12.61	9.36	9.35	10.42	10.83	7.87	6.59	7.25
Snake cucumber	Old Land								
	New Land								
	Total								
Canatlope	Old Land	5.94	9.50	6.91	8.26	8.71	4.85	8.15	
	New Land							6.91	5.10
	Total	5.94	9.50	6.91	8.26	8.71	4.85	8.05	5.10
Melon (shahd)	Old Land								
	New Land								
	Total								
Melon (quoz)	Old Land								
	New Land								
	Total								
Total	Old Land	10.04	9.94	10.59	10.08	10.60	10.91	11.20	9.89
	New Land			0.00				11.41	7.76
	Total	10.04	9.94	10.53	10.08	10.60	10.91	11.23	9.75

Cropped Area(fed) Nile vegetable

Governorate	Land	Assuit							
		2003	2004	2005	2006	2007	2008	2009	2010
Nile Potatoes	Old Land	512	748	588	672	842	1,042	1,292	663
	New Land	0	0	0				10	
	Total	512	748	588	672	842	1,042	1,302	663
Nile tomato	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Squash	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Green beans	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Green Peas	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Cabbage	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Eggplant	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Pepper	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Carrot	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Parsley	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Rocket	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Egyptian Leek	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Cucumber	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Snake cucumber	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Total	Old Land	512	748	588	672	842	1,042	1,292	663
	New Land	0	0	0	0	0	0	10	0
	Total	512	748	588	672	842	1,042	1,302	663

Crop Production (t) Nile Vegetables

Crop	Land	Assuit							
		2003	2004	2005	2006	2007	2008	2009	2010
Nile Potatoes	Old Land	5,503	7,711	7,246	8,891	10,153	13,701	17,769	8,928
	New Land	0	0	0				85	
	Total	5,503	7,711	7,246	8,891	10,153	13,701	17,854	8,928
Nile Tomato	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Squash	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Green Beans	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Green Peas	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Cabbage	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Eggplant	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Pepper	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Carrot	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Parsley	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Rocket	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Egyptian Leek	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Cucumber	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Snake Cucumber	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Total	Old Land	5,503	7,711	7,246	8,891	10,153	13,701	17,769	8,928
	New Land	0	0	0	0	0	0	85	0
	Total	5,503	7,711	7,246	8,891	10,153	13,701	17,854	8,928

Crop Yield (t/fed) Nile Vegetables

Crop	Land	Assuit							
		2003	2004	2005	2006	2007	2008	2009	2010
Nile potatoes	Old Land	10.75	10.31	12.32	13.23	12.06	13.15	13.75	13.47
	New Land							8.50	
	Total	10.75	10.31	12.32	13.23	12.06	13.15	13.71	13.47
Nile tomato	Old Land								
	New Land								
	Total								
Squash	Old Land								
	New Land								
	Total								
Green beans	Old Land								
	New Land								
	Total								
Green peas	Old Land								
	New Land								
	Total								
Cabbage	Old Land								
	New Land								
	Total								
Eggplant	Old Land								
	New Land								
	Total								
Pepper	Old Land								
	New Land								
	Total								
Carrot	Old Land								
	New Land								
	Total								
Parsley	Old Land								
	New Land								
	Total								
Rocket	Old Land								
	New Land								
	Total								
Egyptian leek	Old Land								
	New Land								
	Total								
Cucumber	Old Land								
	New Land								
	Total								
Snake cucumber	Old Land								
	New Land								
	Total								
Total	Old Land	10.75	10.31	12.32	13.23	12.06	13.15	13.75	13.47
	New Land							8.50	
	Total	10.75	10.31	12.32	13.23	12.06	13.15	13.71	13.47

Fruit Trees Cropped Area (fed)

Crop	Land	Assuit							
		2003	2004	2005	2006	2007	2008	2009	2010
Citrus	Old Land	4000	4072	4100	4387	5385	5441	3733	3864
	New Land	0		0				2,516	2,573
	Total	4,000	4,072	4,100	4,387	5,385	5,441	6,249	6,437
Grape	Old Land	3993	4029	3783	3685	3575	3298	2541	2483
	New Land	0		0				620	754
	Total	3,993	4,029	3,783	3,685	3,575	3,298	3,161	3,237
Mango	Old Land	2259	2236	2247	2232	2723	2725	563	646
	New Land	0		0				2,194	2,171
	Total	2,259	2,236	2,247	2,232	2,723	2,725	2,757	2,817
Banana	Old Land	2228	2229	2225	2241	2108	2110	2156	2230
	New Land	0		0				4	
	Total	2,228	2,229	2,225	2,241	2,108	2,110	2,160	2,230
Apple	Old Land	217	207	205	176	155	117	96	92
	New Land	0		0				13	68
	Total	217	207	205	176	155	117	109	160
Peach	Old Land	123	124	124	123	277	278	1	1
	New Land	0		0				278	338
	Total	123	124	124	123	277	278	279	339
Plum	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Fig	Old Land	154	132	135	135	135	132	70	68
	New Land	0		0				60	81
	Total	154	132	135	135	135	132	130	149
Prickly pear	Old Land	29	26	26	26	26	20	20	
	New Land	0		0					20
	Total	29	26	26	26	26	20	20	20
Guava	Old Land	352	374	370	363	428	437	124	135
	New Land	0		0				309	338
	Total	352	374	370	363	428	437	433	473
Pomegranate	Old Land	2542	3048	3489	3968	5785	5923	4986	5628
	New Land	10		0		24		987	1,346
	Total	2,552	3,048	3,489	3,968	5,809	5,923	5,973	6,974
Apricot	Old Land	124	124	124	123	136	125		
	New Land	0		0				125	126
	Total	124	124	124	123	136	125	125	126
Pear	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Olive	Old Land	871	1400		1590	1689	2052	12	12
	New Land	0						2,534	2,658
	Total	871	1,400	0	1,590	1,689	2,052	2,546	2,670
Almond	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Custard Apple	Old Land	1	1				5		
	New Land	0							
	Total	1	1	0	0	0	5	0	0
Medlar	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Persimmon	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Pecannut	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Avocado	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Science tree	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Total	Old Land	16893	18002	16828	19049	22422	22663	14302	15159
	New Land	10	0	0	0	24	0	9,640	10,473
	Total	16,903	18,002	16,828	19,049	22,446	22,663	23,942	25,632

Fruit Trees Production (t)

Crop	Land	Assuit							
		2003	2004	2005	2006	2007	2008	2009	2010
Citrus	Old Land	22033	25361	31704	33544	31533	31981	27053	27799
	New Land	0		0				9,588	12,686
	Total	22,033	25,361	31,704	33,544	31,533	31,981	36,641	40,485
Grape	Old Land	29670	34485	30484	30135	28764	27700	22337	22030
	New Land	0		0				3,791	3,743
	Total	29,670	34,485	30,484	30,135	28,764	27,700	26,128	25,773
Mango	Old Land	2010	2623	6152	7129	6937	6332	1723	1656
	New Land	0		0				6,314	6,255
	Total	2,010	2,623	6,152	7,129	6,937	6,332	8,037	7,911
Banana	Old Land	30475	32360	34486	35043	35325	35456	36680	32666
	New Land	0		0				56	
	Total	30,475	32,360	34,486	35,043	35,325	35,456	36,736	32,666
Apple	Old Land	1775	2452	2452	2050	1392	1189	847	668
	New Land	0		0				115	94
	Total	1,775	2,452	2,452	2,050	1,392	1,189	962	762
Peach	Old Land	15	27	205	246	475	749		
	New Land	0		0				1,003	1,734
	Total	15	27	205	246	475	749	1,003	1,734
Plum	Old Land	0							
	New Land	0							
	Total	0	0	0	0	0	0	0	0
Fig	Old Land	387	462	974	896	914	860	494	459
	New Land	0		0				429	411
	Total	387	462	974	896	914	860	923	870
Prickly Pear	Old Land	125	128	135	138	138	106		
	New Land	0		0				106	106
	Total	125	128	135	138	138	106	106	106
Guava	Old Land	1845	2067	2794	2849	2797	2764	922	979
	New Land	0		0				2,289	2,481
	Total	1,845	2,067	2,794	2,849	2,797	2,764	3,211	3,460
Pomegranante	Old Land	16983	20203	22455	31959	37691	41559	36323	38122
	New Land	0		0				9,566	8,662
	Total	16,983	20,203	22,455	31,959	37,691	41,559	45,889	46,784
Apricot	Old Land		8	246	271	355	367		
	New Land			0				615	620
	Total	0	8	246	271	355	367	615	620
Pear	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Olive	Old Land	358	2316	3397	8490	5479	6118	46	45
	New Land	0		0				6,448	7,605
	Total	358	2,316	3,397	8,490	5,479	6,118	6,494	7,650
Almond	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Custard Apple	Old Land	2	2						
	New Land	0							
	Total	2	2	0	0	0	0	0	0
Medlar	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Persimon	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Pecan Nut	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Avocado	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Science tree	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Total	Old Land	105678	122494	135484	152750	151800	155181	126425	124424
	New Land	0	0	0	0	0	0	40,320	44,397
	Total	105,678	122,494	135,484	152,750	151,800	155,181	166,745	168,821

Fruit Trees Yield (t/fed)

Crop	Land	Assuit							
		2003	2004	2005	2006	2007	2008	2009	2010
Citrus	Old Land	5.51	6.23	7.73	7.65	5.86	5.88	7.25	7.19
	New Land							3.81	4.93
	Total	5.51	6.23	7.73	7.65	5.86	5.88	5.86	6.29
Grape	Old Land	7.43	8.56	8.06	8.18	8.05	8.40	8.79	8.87
	New Land							6.11	4.96
	Total	7.43	8.56	8.06	8.18	8.05	8.40	8.27	7.96
Mango	Old Land	0.89	1.17	2.74	3.19	2.55	2.32	3.06	2.56
	New Land							2.88	2.88
	Total	0.89	1.17	2.74	3.19	2.55	2.32	2.92	2.81
Banana	Old Land	13.68	14.52	15.50	15.64	16.76	16.80	17.01	14.65
	New Land							14.00	
	Total	13.68	14.52	15.50	15.64	16.76	16.80	17.01	14.65
Apple	Old Land	8.18	11.85	11.96	11.65	8.98	10.16	8.82	7.26
	New Land							8.85	1.38
	Total	8.18	11.85	11.96	11.65	8.98	10.16	8.83	4.76
Peach	Old Land	0.12	0.22	1.65	2.00	1.71	2.69	0.00	0.00
	New Land							3.61	5.13
	Total	0.12	0.22	1.65	2.00	1.71	2.69	3.59	5.12
Plum	Old Land								
	New Land								
	Total								
Fig	Old Land	2.51	3.50	7.21	6.64	6.77	6.52	7.06	6.75
	New Land							7.15	5.07
	Total	2.51	3.50	7.21	6.64	6.77	6.52	7.10	5.84
Prickly pear	Old Land	4.31	4.92	5.19	5.31	5.31	5.30	0.00	
	New Land								5.30
	Total	4.31	4.92	5.19	5.31	5.31	5.30	5.30	5.30
Guava	Old Land	5.24	5.53	7.55	7.85	6.54	6.32	7.44	7.25
	New Land							7.41	7.34
	Total	5.24	5.53	7.55	7.85	6.54	6.32	7.42	7.32
Pomegranate	Old Land	6.68	6.63	6.44	8.05	6.52	7.02	7.28	6.77
	New Land	0.00				0.00		9.69	6.44
	Total	6.65	6.63	6.44	8.05	6.49	7.02	7.68	6.71
Apricot	Old Land	0.00	0.06	1.98	2.20	2.61	2.94		
	New Land							4.92	4.92
	Total	0.00	0.06	1.98	2.20	2.61	2.94	4.92	4.92
Pear	Old Land								
	New Land								
	Total								
Olive	Old Land	0.41	1.65		5.34	3.24	2.98	3.83	3.75
	New Land							2.54	2.86
	Total	0.41	1.65		5.34	3.24	2.98	2.55	2.87
Almond	Old Land								
	New Land								
	Total								
Custard apple	Old Land	2.00	2.00				0.00		
	New Land								
	Total	2.00	2.00				0.00		
Medlar	Old Land								
	New Land								
	Total								
Persimmion	Old Land								
	New Land								
	Total								
Pecan nut	Old Land								
	New Land								
	Total								
Avocado	Old Land								
	New Land								
	Total								
Science trees	Old Land								
	New Land								
	Total								
Total	Old Land	6.26	6.80	8.05	8.02	6.77	6.85	8.84	8.21
	New Land	0.00				0.00		4.18	4.24
	Total	6.25	6.80	8.05	8.02	6.76	6.85	6.96	6.59

Winter Ornamental Crop Area (fed)

Crop	Land	Assuit								
		2003	2004	2005	2006	2007	2008	2009	2010	2011
Coriander	Old Land	15	28	53	12	5	2	34	5	
	New Land	0			0		0			
	Total	15	28	53	12	5	2	34	5	0
Cumin	Old Land	3063	1793	1103	1195	1053	795	1004	817	712
	New Land	62	120	29	17		49	27	60	150
	Total	3,125	1,913	1,132	1,212	1,053	844	1,031	877	862
Fennel	Old Land	1342	1659	1842	1908	2417	1574	1469	1810	1755
	New Land	0	12		0		22	11	54	
	Total	1,342	1,671	1,842	1,908	2,417	1,596	1,480	1,864	1,755
Aniseed	Old Land	175	304	373	124	269	150	327	1532	806
	New Land	0	30	28	15	26	20	112	163	100
	Total	175	334	401	139	295	170	439	1,695	906
Bardacoch	Old Land	12	9						2	
	New Land	0							20	
	Total	12	9	0	0	0	0	0	22	0
Caraway	Old Land				0		0	0		
	New Land			13	12		0	11		
	Total	0	0	13	12	0	0	11	0	0
Wormwood	Old Land	5			19	137	27	51	55	5
	New Land	0			0		0	70	70	
	Total	5	0	0	19	137	27	121	125	5
Moghat	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Green mint	Old Land	4	9						8	10
	New Land								20	40
	Total	4	9	0	0	0	0	0	28	50
Green peppery mir	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Fennel flower	Old Land	16	3	2		7	84	47	43	86
	New Land	0					0			
	Total	16	3	2	0	7	84	47	43	86
Safflower seed	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Lemon grass	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Liquorice root	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Dill	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Thyme	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Dry tea	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Parsley	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Intajet	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Green basil	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Green marjoram	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Feul	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Total	Old Land	4632	3805	3373	3258	3888	2632	2932	4272	3374
	New Land	62	162	70	44	26	91	231	387	290
	Total	4,694	3,967	3,443	3,302	3,914	2,723	3,163	4,659	3,664

Winter Ornamental Crop Production (t)

Crop	Land	Assuit								
		2003	2004	2005	2006	2007	2008	2009	2010	2011
Corriander	Old Land	25	51	102	23	9	2	48	5	
	New Land	0			0		0			
	Total	25	51	102	23	9	2	48	5	0
Corriander	Old Land	1,573	881	579	677	613	418	523	375	350
	New Land	18	36	12	5		14	14	12	30
	Total	1,591	917	591	682	613	432	537	387	380
Fennel	Old Land	1,993	2,506	3,057	84	4,213	2,386	2,156	2,020	2,240
	New Land	0	12		14		11	7	31	
	Total	1,993	2,518	3,057	98	4,213	2,397	2,163	2,051	2,240
Aniseed	Old Land	89	159	217	73	159	87	270	1,265	546
	New Land	0	15	15	5	12	12	52	35	25
	Total	89	174	232	78	171	99	322	1,300	571
Bardacoch	Old Land	12	16						3	
	New Land	0							4	
	Total	12	16	0	0	0	0	0	7	0
Caraway	Old Land				0		0	0		
	New Land			12	7		4	7		
	Total	0	0	12	7	0	4	7	0	0
Wormwood	Old Land	5			19	151	27	51	55	5
	New Land	0			0		0	21	21	
	Total	5	0	0	19	151	27	72	76	5
Moghat	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Green Mint	Old Land	2	5						144	180
	New Land								40	400
	Total	2	5	0	0	0	0	0	184	580
Green Peppery Mint	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Fennel Flower	Old Land	16	2	1		5	48	27	31	60
	New Land	0					0			
	Total	16	2	1	0	5	48	27	31	60
Safflower seed	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Lemon grass	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Liquorice root	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Dill	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Thyme	Old Land									
	New Land									
	Total		0	0	0	0	0	0	0	0
Dry tea	Old Land									
	New Land									
	Total		0	0	0	0	0	0	0	0
Parsley	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Intajet	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Green basil	Old Land									
	New Land									
	Total	0	0	0	0	0	0	0	0	0
Green marjoram	Old Land									
	New Land									
	Total	449	0	0	0	0	0	0	0	0
Feul	Old Land	0								
	New Land	0								
	Total	0	0	0	0	0	0	0	0	0
Total	Old Land	3,715	3,620	3,956	876	5,150	2,968	3,075	3,898	3,381
	New Land	18	63	39	31	12	41	101	143	455
	Total	3,733	3,683	3,995	907	5,162	3,009	3,176	4,041	3,836

Winter Ornamental Crop Yield (t/fed)

Crop	Land	Assuit								
		2003	2004	2005	2006	2007	2008	2009	2010	2011
Coriander	Old Land	1.67	1.82	1.92	1.92	1.80	1.00	1.41	1.00	
	New Land									
	Total	1.67	1.82	1.92	1.92	1.80	1.00	1.41	1.00	
Cumin	Old Land	0.51	0.49	0.52	0.57	0.58	0.53	0.52	0.46	0.49
	New Land	0.29	0.30	0.41	0.29		0.29	0.52	0.20	0.20
	Total	0.51	0.48	0.52	0.56	0.58	0.51	0.52	0.44	0.44
Fennel	Old Land	1.49	1.51	1.66	0.04	1.74	1.52	1.47	1.12	1.28
	New Land		1.00				0.50	0.64	0.57	
	Total	1.49	1.51	1.66	0.05	1.74	1.50	1.46	1.10	1.28
Aniseed	Old Land	0.51	0.52	0.58	0.59	0.59	0.58	0.83	0.83	0.68
	New Land		0.50	0.54	0.33	0.46	0.60	0.46	0.21	0.25
	Total	0.51	0.52	0.58	0.56	0.58	0.58	0.73	0.77	0.63
bardacoch	Old Land	1.00	1.78						1.50	
	New Land								0.20	
	Total	1.00	1.78						0.32	
Caraway	Old Land									
	New Land			0.92	0.58			0.64		
	Total			0.92	0.58			0.64		
Wormwood	Old Land	1.00			1.00	1.10	1.00	1.00	1.00	1.00
	New Land							0.30	0.30	
	Total	1.00			1.00	1.10	1.00	0.60	0.61	1.00
Moghat	Old Land									
	New Land									
	Total									
Green mint	Old Land	0.50	0.56						18.00	18.00
	New Land								2.00	10.00
	Total	0.50	0.56						6.57	11.60
Green peppery mint	Old Land									
	New Land									
	Total									
Fennel flower	Old Land	1.00	0.67	0.50		0.71	0.57	0.57	0.72	0.70
	New Land									
	Total	1.00	0.67	0.50		0.71	0.57	0.57	0.72	0.70
Safflower seed	Old Land									
	New Land									
	Total									
Lemon grass	Old Land									
	New Land									
	Total									
Liquorice root	Old Land									
	New Land									
	Total									
Dill	Old Land									
	New Land									
	Total									
Thyme	Old Land									
	New Land									
	Total									
Dry tea	Old Land									
	New Land									
	Total									
Parsley	Old Land									
	New Land									
	Total									
Intajet	Old Land									
	New Land									
	Total									
Green basil	Old Land									
	New Land									
	Total									
Green marjoram	Old Land									
	New Land									
	Total									
Feul	Old Land									
	New Land									
	Total									
Total	Old Land	0.80	0.95	1.17	0.27	1.32	1.13	1.05	0.91	1.00
	New Land	0.29	0.39	0.56	0.70	0.46	0.45	0.44	0.37	1.57
	Total	0.80	0.93	1.16	0.27	1.32	1.11	1.00	0.87	1.05

Summer Ornamental Area (fed)

Crop	Land	Assuit							
		2003	2004	2005	2006	2007	2008	2009	2010
Carcade	Old Land	44	3	20	17		9	13	19
	New Land	0	254	140	145		60	75	115
	Total	44	257	160	162	0	69	88	134
Green red chilies	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Demsisa	Old Land								
	New Land								
	Total		0	0	0	0	0	0	0
Moghat	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Bardacoch	Old Land	12							
	New Land	0							
	Total	12	0	0	0	0	0	0	0
Barady Spear mint(green)	Old Land							10	
	New Land								30
	Total	0	0	0	0	0	0	10	30
Barady spear mint(Dry)	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Pepery mint	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Rosemary	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Lemon grass	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Cactus	Old Land								
	New Land								
	Total		0	0	0	0	0	0	0
Liquorice Root	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Parsley	Old Land								
	New Land								
	Total		0	0	0	0	0	0	0
Hohoba	Old Land			0			0		
	New Land		100	0	145	150	150	175	160
	Total	0	100	0	145	150	150	175	160
Intajet	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Marjoram	Old Land								
	New Land								
	Total		0	0	0	0	0	0	0
Basil	Old Land	1,915	3,479	2,860	2,882	3,006	2,482	3,591	2,274
	New Land	0		116	25	40	68	28	117
	Total	1,915	3,479	2,976	2,907	3,046	2,550	3,619	2,391
Caraway	Old Land	0							
	New Land	0					76		
	Total	0	0	0	0	0	76	0	0
Nursery ornament	Old Land								
	New Land								
	Total		0	0	0	0	0	0	0
Total	Old Land	1,971	3,482	2,880	2,899	3,006	2,491	3,614	2,293
	New Land	0	354	256	315	190	354	278	422
	Total	1,971	3,836	3,136	3,214	3,196	2,845	3,892	2,715

Summer Ornamental Crop Production (t)

Crop	Land	Assuit							
		2003	2004	2005	2006	2007	2008	2009	2010
Carcade	Old Land	24	2	11	11		6	10	13
	New Land	0	127	140	87		30	90	173
	Total	24	129	151	98	0	36	100	186
Green red chilies	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Demsisa	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Moghat	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Bardacoch	Old Land	11							
	New Land	0							
	Total	11	0	0	0	0	0	0	0
Barady spear mint (green)	Old Land							150	
	New Land								300
	Total	0	0	0	0	0	0	150	300
Barady spear mint (dry)	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Peppery mint	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Rosemary	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Lemon grass	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Cactus	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Liquorice root	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	
Parsley	Old Land								
	New Land								
	Total		0	0	0	0	0	0	0
Hohoba	Old Land			0			0	34	
	New Land		80	88	22	27	27		31
	Total	0	80	88	22	27	27	34	31
Intajet	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Marjoram	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Basil	Old Land	4,877	7,908	7,200	7,229	75,544	61,603	86,116	57,960
	New Land	0		364	60	800	272	840	2,880
	Total	4,877	7,908	7,564	7,289	76,344	61,875	86,956	60,840
Caraway	Old Land	0					0		
	New Land	0					63		
	Total	0	0	0	0	0	63	0	0
Nursery Ornamental	Old Land								
	New Land								
	Total	0	0	0	0	0	0	0	0
Total	Old Land	4,912	7,910	7,211	7,240	75,544	61,609	86,310	57,973
	New Land	0	207	592	169	827	392	930	3,384
	Total	4,912	8,117	7,803	7,409	76,371	62,001	87,240	61,357

Summer Ornamental Crop Yield (t/fed)

Crop	Land	Assuit							
		2003	2004	2005	2006	2007	2008	2009	2010
Carcade	Old Land	0.55	0.67	0.55	0.65		0.67	0.77	0.68
	New Land		0.50	1.00	0.60		0.50	1.20	1.50
	Total	0.55	0.50	0.94	0.60		0.52	1.14	1.39
Green red chilies	Old Land								
	New Land								
	Total								
Demsisa	Old Land								
	New Land								
	Total								
Moghat	Old Land								
	New Land								
	Total								
bardacoch	Old Land	0.92							
	New Land								
	Total	0.92							
Barady spear mint (green)	Old Land							15.00	
	New Land								10.00
	Total							15.00	10.00
Barady spear mint (dry)	Old Land								
	New Land								
	Total								
Peppery mint	Old Land								
	New Land								
	Total								
Rosemary	Old Land								
	New Land								
	Total								
Lemon grass	Old Land								
	New Land								
	Total								
Cactus	Old Land								
	New Land								
	Total								
Liquorice root	Old Land								
	New Land								
	Total								
Parsley	Old Land								
	New Land								
	Total								
Hohoba	Old Land								
	New Land		0.80		0.15	0.18	0.18	0.00	0.19
	Total		0.80		0.15	0.18	0.18	0.19	0.19
Intajet	Old Land								
	New Land								
	Total								
Marjoram	Old Land								
	New Land								
	Total								
Basil	Old Land	2.55	2.27	2.52	2.51	25.13	24.82	23.98	25.49
	New Land			3.14	2.40	20.00	4.00	30.00	24.62
	Total	2.55	2.27	2.54	2.51	25.06	24.26	24.03	25.45
Caraway	Old Land								
	New Land						0.83		
	Total						0.83		
Nursery ornamental	Old Land								
	New Land								
	Total								
Total	Old Land	2.49	2.27	2.50	2.50	25.13	24.73	23.88	25.28
	New Land		0.58	2.31	0.54	4.35	1.11	3.35	8.02
	Total	2.49	2.12	2.49	2.31	23.90	21.79	22.42	22.60