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**ESCWA-Amman, 13-14 Feb. 2017**

# Overview of Lebanese Agriculture

- Total Cultivated Agricultural Area: 2.3 Million Du
- Total irrigated Area: 1.1 Million Du (50%)
- More than 70% of farmers have < 10 du area
- 4% have areas between 40 and 100 dun.

# Major Crops

## Major seasonal crops

- Tomatoes
- Cucumber
- Potatoes
- Wheat
- Lettuce

## Major Perennial Crops

- Olive tree → (43%)
- Apple → (9%)
- Citrus fruits → (8% of Perennial Crops)
- Grapes → (table grape and for wine) (8%)
- Banana → (2.5%)



- Agricultural exports count for: **730 Million USD**  
(**19%** of the total export)

- Most important exported crops:

- ❖ Citrus fruits
- ❖ Apple
- ❖ Cucumber
- ❖ Tomatoes
- ❖ Potatoes
- ❖ Iceberg



# GAP status

- Lebanon does not have a specific policy on the implementation of GAPs.
- GlobalGap projects were developed.
- Introduction of the IPM and IWM in the MoA strategy.
- In 2015 the food safety law , enforces the application of standards, traceability and record keeping which are all a major part of GlobalGap requirements

# Support by the International organizations

- FAO:
  - Strengthening Production and Marketing of Lebanese Agricultural Products 2010-2013 (MoA/FAO)
- EU:
  - Agriculture Development Project (2006-2009)
  - Agricultural Rural Development Programme (ARDP) (2014-...)
  - European Neighborhood Programme for Agricultural Rural Development ENPARD
- USAID project

# Agriculture Development Project (2006-2009)

- Provided 3 Levels of Intensive Training about EurepGap (EurepGap I, II, III), for all the farmers beneficiaries of the project, and Ministry staff
- Developed technical Guides to the major crops grown in Lebanon



# Strengthening Production and Marketing of Lebanese Agricultural Products 2010-2013 (MoA/FAO)

A- Improvement of GAPs targeted 3 main crops and followed 3 steps implementation plan:

- 6 Training of trainers sessions (112 trainees)
- 151 Training of farmers (6339 targeted farmers)



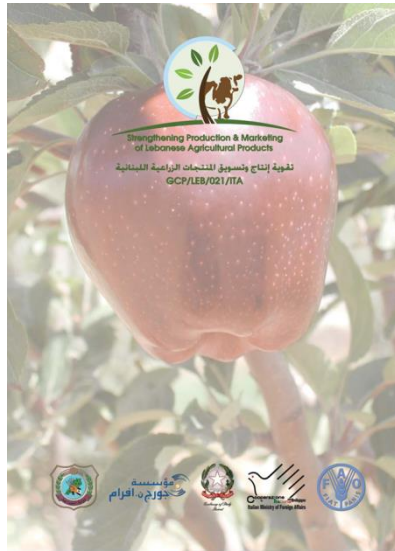


## Subjects

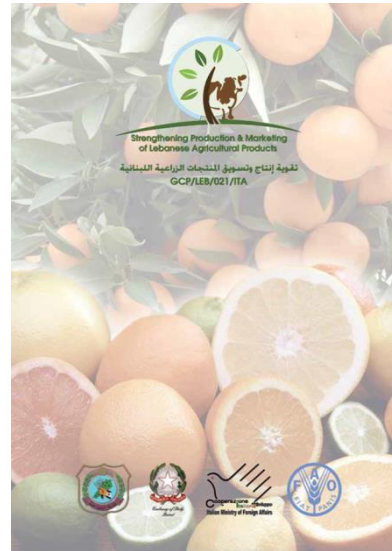
- GAP quality management systems (TOT)
- Fruit tree husbandry and cultural practices
- Integrated Pest Management session for farmers
- Pheromones and traps use, irrigation, fertilization
- Good production practices (GPPs), pruning and grafting; fruit tree summer pruning



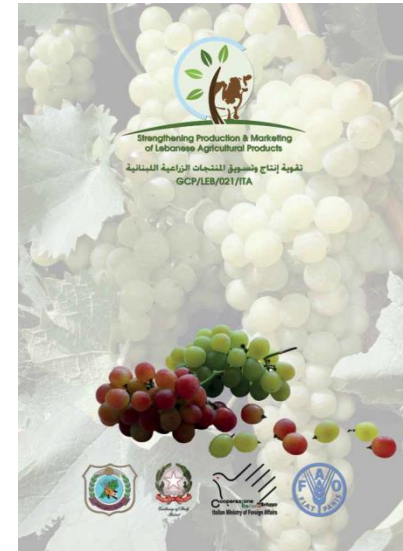
# B-Field Guides



**Apple**



**Citrus**



**Grapes**

# C- GAP Guidelines

## “Guidelines for GAP for Fruits & Vegetables in Lebanon”

1- Soil and Soil Management, Soil Risk Assessment

2- Water and water Management

3- Crop and Fodder Production

- a. Field and crop selection
- b. Nutrient management
- c. Field and Crop Management



# C- GAP guidelines (Con't)

## 4- Crop Protection

- a. Pest Management and spray techniques
- b. Mixing and Loading Pesticides
- c. Disposal of Pesticide Containers
- d. Pesticides Storage



## 5- HARVESTING & ON FARM PROCESSING & STORAGE

## 6- Energy and Waste Management



## 7- HUMAN WELFARE, HEALTH, HYGIENE & SAFETY

# D- Field Visits

The project included field visits to Farmers, cooperatives and wholesale markets

- Some big farmers and cooperatives already have GLOBALGAP in Lebanon.
- Some others are willing to get GLOBALGAP however they are facing some difficulties:
  - Small size holdings
  - High Investment
  - short delays of land renting time
  - discrepancies in the yields from year to year

# E- National Technical working group (NTWG) on GAP

- Drafting the ToR for a :  
**National Technical working group on GAP**



**The Committee still not created**

- The purpose of the NTWG is:

**To shape national policy & strategies**



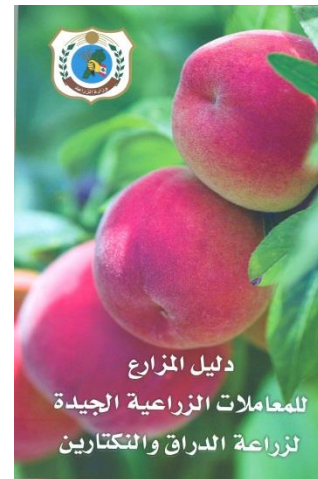
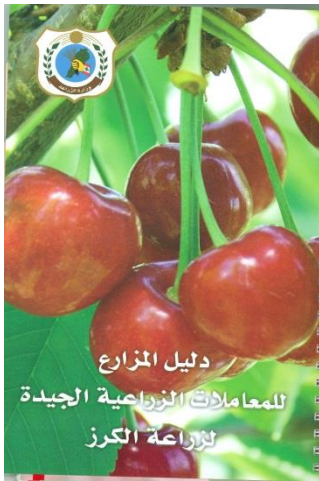
- 1- facilitate the adoption of international and/or national standards and regulations
- 2- guarantee systems for quality, food safety and environmental management by fruit and vegetable producers and other supply chain actors in Lebanon.



# GAP Guides developed by the MOA

After the project, MoA issued guides for GAP on:

- Peaches and Nectarines
- Cherries



- Extension work on GAP is continuous



# MoA Strategy 2015-2019

*Increase productivity and competitiveness of Lebanese Ag. Products*

## *Proposed actions:*

- Improve value chains and increase the value-added for products
- Strengthen sanitary and phytosanitary measures
- Increase agricultural exports
- Improve legal status of farmers
- Encourage youth and women to engage in agriculture-related investments.

# Support by the governmental institution IDAL

- IDAL is a governmental body supporting export by giving subsidies
- GLOBALGAP producers are supported by 25% more subsidies resulting in an increased number of producers adopting GLOBALGAP and thus creating new markets



# RECOMMENDATIONS

# The role of the Lebanese MOA in the GLOBALGAP implementation :

## 1- Set a frame work of the national regulations related to the GLOBALGAP implementation:

- ◉ Worker health, Safety and welfare regulations
- ◉ Environment, Wildlife and Conservation Protection with relation to the farm activities
- ◉ Empty pesticides containers disposal regulation.
- ◉ Disposal of Surplus Application Mix or tank washings.
- ◉ Nurseries production and transplants quality Regulations.

# The role of the Lebanese MOA in the GLOBALGAP implementation :

## 1- Set a frame work of the national regulations related to the GLOBALGAP implementation:

- Genetically Modified Organisms (GMOs) Regulation
- Fertilizers storage regulations
- Pesticides storage regulations
- Pesticides registration regulations
- Pesticides Special Approval for the imported Pesticides regulations
- Pesticides Off-Label PPP Approval regulations

# The role of the Lebanese MOA in the GLOBALGAP implementation :

## 1- Set a frame work of the national regulations related to the GLOBALGAP implementation:

- Postharvest Treatment Products registration regulations
- Postharvest Treatment Products Approval for the imported Postharvest Treatment Products regulations
- Postharvest Treatment Products Off-Label PPP Approval regulations
- Lebanese MRLs list
- Soil Fumigation Regulation (Approved and non approved chemicals)
- Chemical treatments Workers Health check regulations.
- The use of treated sewage water for irrigation/fertigation regulation
- Supply of irrigation/fertigation water (abstraction – quantities - .....etc.)

# The role of the Lebanese MOA in the GLOBALGAP implementation :

## 1- Set a frame work of the national regulations related to the GLOBALGAP implementation:

- The availability of the accredited labs (pesticides residue – water analysis – soil analysis , fertilizers analysis – organic material analysis, etc.)
- The availability of the fertilizers and pesticides equipments' calibration centers (for calibration and/or training)
- Plant protection products protective clothes usage regulations.
- First aid kits (availability and contents) regulations.
- Traceability regulations.

## 2- National Technical Working Groups (NTWG)

- Gain qualified input from national experts
- Close work in cooperation with the GLOBALGAP Secretariat and the GLOBALGAP Committees and support
- Facilitate the GLOBALGAP implementation and continuous improvement based on the specific interest area needs.
- Direct link in the country and the first contact point with the GLOBALGAP
- The MOA can be the NTWG and sign an agreement with GLOBALGAP Secretariat



### 3- The National Accreditation Council مجلس الاعتماد الوطني

- Accredit a number of certification bodies to conduct the GLOBALGAP certification process
- The Certification Body (CB) has to be accredited by an approved Accreditation Body (AB)
- The Accreditation Body (AB) (The national accreditation council) has to be a member and internationally recognized from the International Accreditation Forum

## 4- GLOBALGAP Technical Department in the MOA

- Responsible about the GLOBALGAP Implementation and the consultation issues
- Help growers to solve the technical problems and the constrains that they may face during the implementation.
- Establish an internal data base of all the growers, Coops , CBs ,.....etc.



**Thank you for your attention**