

Egypt

Sheta I., Eidsalem S., Fahmy H.

in

D'Onghia A.M. (ed.), Menini U. (ed.), Martelli G.P. (ed.).
Improvement of the citrus sector by the setting up of the common conservation strategies
for the free exchange of healthy citrus genetic resources

Bari : CIHEAM

Options Méditerranéennes : Série B. Etudes et Recherches; n. 33

2001

pages 157-162

Article available on line / Article disponible en ligne à l'adresse :

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To cite this article / Pour citer cet article

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*Improvement of the citrus sector by the setting up of the common conservation strategies for the free
exchange of healthy citrus genetic resources*. Bari : CIHEAM, 2001. p. 157-162 (Options
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Egypt

Project team

- Mr. I. SHETA, National Project Representative, Production Section, Ministry of Agriculture and Land Reclamation, Cairo
- Mr. S. EIDSALEM, Horticultural Research Institute, MALR, Giza
- Mr. H. FAHMY, Foreign Relations, MALR, Cairo

Importance of citriculture

With a cultivation of 334.058 feddan and an annual production of 2.465.813 ton, citrus represents surely the most important fruit crop in Egypt in terms of history, land grown, local consumption and exportation. The main varieties are Valencia orange, local mandarin and lime, which are cultivated in the Delta and in the Desert areas on sour orange and Volkameriana lemon rootstocks, respectively.

Citrus groves are represented with trees of unknown varieties and sanitary status and the average productivity is very low, 7.38 ton/feddan. Most of the Governmental efforts are focusing on citrus improvement programmes with aim to increase production and fruit quality, meeting the citrus industry.

Citrus distribution map



Citrus varieties

Species/Varieties	Cultivated areas	Area (Ha)	Yield/Ha (q)
Sweet oranges	Sharkia, Behira, Kalubia, Monofia, Giza, Isamilia, Gharbia, Asuit and Beni Swif (Delta) Noubaria (Desert), Fayoum		
• <i>Common</i>		12969	176.14
• <i>Navel</i>		51470	180.50
• <i>Blood</i>		17	159.10
• <i>Sour ranges</i>		864	385.20
• <i>Acidless</i>		5213	229.40
Mandarins		33000	136.36
Lemons		15000	186.21
Grapefruit		203	269.10
Limes		14179	196.60
Others		19354	168.00
		152269	

Citrus phytosanitary problems

Pathogens		Diseases		References
Virus and virus-like				
CVV	X	Inf. variegation/Crinkly leaf	X	Fahmy, 2000
CiLRV		Leaf rugose		
CPsV	X	Psorosis	X	Nuor-Eldin, 1959; Bové, 1995; Fahmy, 2000
SDV		Satsuma dwarf		
CTLV		Tatterleaf/Citrange stunt		
CTV		Tristeza		
CVEV		Vein enation/Woody gall	X	
		Concave gum	X	Nuor-Eldin, 1959; Bové, 1995; Fahmy, 2000)
		Cristacortis		Bové, 1995
		Impietratura		
CEVd	X	Exocortis	X	Bové, 1995; Fahmy, 2000
CCaVd	X	Cachexia	X	Nuor-Eldin, 1959; Bové, 1995; Fahmy, 2000
CVds	X	Citrus viroids	X	Fahmy, 2000
		Chlorotic dwarf disease		
		Gummy bark	X	Nuor-Eldin, 1959; Childs <i>et al</i> , 1968
Fungus				
<i>Phytophthora sp</i>		Phytophthora gummosis	X	
<i>Fusarium sp</i> , <i>Roselinia sp</i>		Root rot		
<i>Phoma tracheiphila</i>		Mal secco		
Bacteria and Bacteria-like				
<i>Pseudomonas syringae</i>	X	Blast and Black pit		
<i>X. axonopodis pv citri</i>		Citrus canker		
<i>Candidatus L. asiaticus</i>		Greening		
<i>Candidatus L. africanum</i>				
Nematodes				
Tylenchulus semipenetrans	X		X	Nuor-Eldin, 1959; El-Morshedy, 1980, 1995
Pratylenchus vulnus				
Phytoplasmas				
<i>Spiroplasma citri</i>	X	Stubborn		Fahmy, 2000
		Witches' broom		

X= present in the country

Citrus germplasm

Location	Date of creation	N° of accessions*	Characterization		
			morphological	trueness-to-type	sanitary
National					
Horticultural Research Institute, MALR, Giza		67	X	X	partial
Kanater		85	X	X	partial
Korashia		52	X	X	partial

Citrus germplasm list

Varieties/Species	Varieties/Species
Oranges	King
<i>Common</i>	Ponkan
Balady	Dancy
Hamlin	Clementine
Jaffa	Kinnow
Shamouti	Kara
Person Brown	Fremont
Pineapple	Minneola
Roja	Lime
Salustiana	Balady
Vesido	Rashidy (local)
Common dolce	Mexican
Royal	Tahitian
Tempi	Persian
Youssef Soliman (local)	Sweet lime
Balady few seeded (local)	Mistikawi
Tanarrif	Balady
Yellow Banaty	Palestine
White khalily	Iraq
Rounded Jaffa	Wahy
<i>Navel</i>	Grapefruit
Washington	March seedless
Navel 1-13 (local-nucellar)	Foster
Robertson	Thompson
Thomson	Duncan
Carter	Ruby Red
Golden Nugget	Star Ruby Red.
Parent	Shaddock
Skaggs Bonanza	<i>Red</i>
Frost	<i>White</i>
Lane late	<i>Spring</i>
<i>Valencia</i>	Lemon
Valencia	Eureka
Indian	Lisbon
Australian	Villafranca
Hart of Florida	Kumquat
Lue Gim Gnog	Oval and
Californian	Round
Valencia 10	Citrus Rootstocks
Valencia 123	<i>Sour orange</i>
Nucellar (local)	Balady (local)
Cutter nucellar.	Sweet
<i>Succari or Sugar</i>	Thornless
Dennis	Brazilian
Baiady	Russian
Tunissian.	Spanish
Pigmented	<i>Volkameriana lemon</i>
Egyptian Blood	<i>Cleopatra mandarin</i>
Red Khalily	<i>Rangpur lime</i>
Sanguina Oval	<i>Rough lemon</i>
Mandarins and mandarin - like	<i>Troyer citrange</i>
Balady (local)	<i>Carizo citrange</i>
Abd El-Razik (local),	<i>Swingle citrumeio</i>
Sonbol (local)	<i>Macrophilia or Alemow</i>
	<i>Poorman's orange</i>

Citrus programmes

Programmes	Proposed	Running	Legislation
Clonal and sanitary selection	Egyptian-German Citrus Improvement program	1999	
Monitoring, eradication and control of quarantine pests			National law
Certification	Egyptian-German Citrus Improvement program	1999	
Quarantine			National law
Others	- National program for increasing productivity of citrus trees - Integrated pest management	1990	

Public and private institutions working in citrus

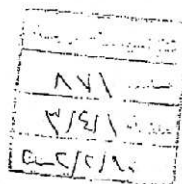
Institutions or others	Location	Type of activity	Personnel		Facilities
			Number	Qualifications	
Public					
Horticulture Research Institute	Giza	Research Extension Training	45	PhD., Msc, Bsc	Labs, Experimental orchards.
Plant Path. Inst.	Giza	Research Extension Training	22	PhD., Msc, Bsc	Labs, greenhouse
Plant Port. Inst.	Giza	Research Extension Training	28	PhD., Msc, Bsc	Labs, greenhouse
Central Adm. for Horticulture	Giza	Extension		Bsc	
Horticulture Services Unit	Giza and other Governorates	Production		Bsc	Open nurseries and greenhouse
National Res. Center	Dokki	Research Extension	8	PhD., Msc, Bsc	Labs
Private					
Packing station	Different Governorates	Packing fruits			Packing house

Agreement

Official country agreement to the project on "Improvement of the citrus sector by setting up common conservation strategies for the free exchange of healthy citrus plant genetic resources"

ARAB REPUBLIC OF EGYPT
MINISTRY OF AGRICULTURE
MINISTER'S OFFICE

Dr. Cosimo Lacirignola,
Director of IAMB,
Bary- Italy.



Subject: Project Proposal on "Improvement of the citrus sector in the Mediterranean by the setting up of common conservation strategies for the free exchange of healthy citrus genetic resources".

Dear Dr. Cosimo Lacirignola:

Following the outputs of Algeria meeting in October 2000 of the Mediterranean Network on Certification of Citrus (MNCC) and the Mediterranean Citrus Network (MECINET), Egypt is willing to join the project proposal on Improvement of the citrus sector in the Mediterranean by the setting up of common conservation strategies for the free exchange of healthy citrus genetic resources".

To this aim Eng. Ebrahim Sheta, Head of Agricultural Production Sector, Ministry of Agriculture and Land Reclamation will represent Egypt within the proposed project.

Please accept my best regards .

Cordially Yours

Youssef Wally
Dr. Youssef Wally
Deputy Prime Minister
and Minister of Agriculture
and Land Reclamation.