

Albania

Stamo B., Hodaj B., Nelaj Y.

in

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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

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

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Albania

Project Team

- Mrs. B. STAMO, National Project Representative, Plant Protection Institute - Durres
- Mr. B. HODAJ, Ministry of Food and Agriculture Tirana
- Mr. Y. NELAJ, Pomology Institute - Vlore

Importance of citriculture

Although the cultivation of citrus is not very old tradition in Albania, the strategic plan of the Ministry of Agriculture for developing fruit trees predicted that in 2010 the area cultivated with citrus will reach 35000 ha and the corresponding production 92000 tons.

Citrus distribution map



Citrus varieties

Species/Varieties	Cultivated areas	Area (Ha)
Oranges		490
- Tarocco	Elbasan, Vlora, Saranda, Delvina, Lushnje, Fier	
- W. Navel		
- Ovale Calabrese		
- Jaffa		
- Moro		
- Valencia		
- Local varieties (Thin, Thick-rinded, Pandalimon)		
Mandarins & Mandarin-like		220
- Clementine	Lushnja, Elbasan, Tirana, Durres, Saranda, Vlora	
- Common		
- Satsuma		
- Avana		
Lemons and lemon-like		39
- Meyer		
- S. Teresa		
- Femminella		
- Interdonato		
- Local varieties (Lukova, Babaliu)		
Total		749

Citrus phytosanitary problems

Pathogens		Diseases		References
Virus and virus-like				
CVV		Inf. variegation/Crinkly leaf	X	unpublished
GiLRV		Leaf rugose	X	
CPsV		Psorosis	X	unpublished
SDV		Satsuma dwarf		
CTLV		Tatterleaf/Citrangle stunt		
CTV	X	Tristeza	X	D'Onghia <i>et al</i> , 2000
CVEV		Vein enation/Woody gall	X	unpublished
		Concave gum	X	unpublished
		Cristacortis	X	unpublished
		Impietratura		
CEVd		Exocortis	X	unpublished
CCaVd		Cachexia	X	unpublished
CVds		Citrus viroids	X	unpublished
		Chlorotic dwarf disease		
		Gummy bark		

continued

Pathogens		Diseases		References
Fungus				
<i>Phytophthora sp</i>	X	Phytophthora gummosis	X	Kaltani, 1978
<i>Fusarium sp, Roselinia sp</i>		Root rot		
<i>Phoma tracheiphila</i>	X	Mal secco	X	Kaltani, 1969
Bacteria and Bacteria-like				
<i>Pseudomonas syringae</i>		Blast and Black pit		
<i>X. axonopodis pv citri</i>		Citrus canker		
<i>Candidatus L. asiaticus</i>		Greening		
Nematodes				
<i>Tylenchulus semipenetrans</i>	X		X	Jovani, 1988
<i>Pratylenchus vulnus</i>	X		X	Jovani, 1988
Phytoplasmas				
<i>Spiroplasma citri</i>		Stubborn		
		Witches' broom		

X= present in the country

Citrus germplasm

Location	Date of creation	N° of accessions*	Characterization		
			morphological	Trueness-to-type	sanitary
National					
Vlora	1959	220	Partial	Partial	-
Saranda	1965	75	-	-	-

Citrus programmes

Programmes	Proposed	Running	Legislation
Clonal and sanitary selection	Bilateral cooperation project Italy – Albania, 1995	1998 - present	
Monitoring, eradication and control of quarantine pests		1993-present	National plant protection legislation 7659/93
Certification	Bilateral cooperation project Italy – Albania, 1995	1996 - present	MAF Regulation 193/96
Quarantine	Eradication of quarantine agents	1996 - present	National law 193/96

Public and private institutions working in citrus

Institutions or others	Location	Type of activity	Personnel		Facilities
			Number	Qualifications	
Public					
Plant Protection Institute (PPI)	Durres	- phytosanitary control - research	1	Researcher	Diagnosis lab.
Pomology Institute (PI-V)	Vlora	- germplasm conservation - research	1	Researcher	<i>In vitro</i> lab. diagnosis lab. screen house
Department of Horticulture, Agricultural University (DH-AUT)	Tirana	- training - research	1	Researcher	
State Entity of Seeds and Seedlings (SESS)	Tirana	- monitoring - trueness-to-type controls	1	Researcher	Diagnosis lab. Breeding lab.
Department of Plant Protection Services (DPPS)	MAF-Tirana	- <i>phytosanitary control</i>	1	Technician	

Financial Table

Project steps	Facility/instruments/activity	Units	Cost (€)
Inventory	GPS	1	5.000
	GIS	1	8.000
Conservation for characterization	Planting and equipments for the conservation field	1 Ha	25.000
Genetic and agronomic characterization	Laboratory equipments, running materials	1	100.000
Physiological WUE characterization	Laboratory equipments, equipments and running materials	1	30.000
Sanitary assessment	Laboratory equipments, equipments and running materials	1	55.000
	1 Indexing greenhouse, equipments (benches, shade etc...) and running materials	100 m ²	100.000
	1 Insect-proof screenhouse	100 m ²	40.000
Sanitation	Equipments for <i>in vitro</i> laboratory	1	50.000
	1 thermotherapy chamber	1	15.000
	1 conditioned greenhouse	100 m ²	50.000
Conservation <i>in vitro</i>	Equipments for <i>in vitro</i> laboratory	1	50.000
Conservation <i>in vivo</i> and Assessment of pomological traits	1 Insect-proof screenhouse	200 m ²	100.000
Training	Short-courses		80.000
	Stages		100.000
	Technical visits		70.000
	Travel expenses		45.000
Missions and part time personnel			80.000
Supply	Transport vehicle	1	30.000
	Books, publications, CD		3.000
	PC and printer	1	3.000
General expenses			103.900
TOTAL			1.142.900

Agreements

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"

MINISTRY OF AGRICULTURE AND FOOD
ALBANIA

Dr. C. Lacirignola
Dr. A. M. D'Onghia

4th June 2001

Re: Improvements of the Citrus sector in the Mediterranean by the setting up of common conservation strategies for the free exchange of healthy citrus plant genetic resources.

Reference is being made to your invitation to participate in the above mentioned project.

Evaluating the work done in the framework of the network (Mediterranean Network of Citrus Certification) for citrus sector in Albania, The Ministry for Agriculture and Food of Albania is willing to take part in this project and is nominating Ms. Brunhilda Stamo, (Plant Protection Institute, Durres) to continue as an Albanian representative.

Mr. Resmi Osmani
Director General of Agriculture

