

Algeria

Kerboua M., Benbadis A., Assabah A.

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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Algeria

Project team

- Mr. M. KERBOUA, National Project Representative, Institut Technique d'Arboriculture Fruitière (ITAF) Boufarik
- Mr A. BENBADIS, ITAF - Boufarik
- Mr A. ASSABAH, Centre National de la Certification et du Contrôle des plants (CNCC) Alger

Importance of citriculture

The new citriculture programme belonging to the, «Plan National de Développement Agricole (PNDA)» preview to increase the citrus area from 45.040 ha to 65.000 ha, and to reach a total production of 550.000 T.

Citrus distribution map



Citrus varieties

Species/Varieties	Cultivated areas	Area (Ha)	Yield/Ha (q)
Oranges			
- <i>Common, Valencia</i>	North centre (MITIDJA)	3 500	120
- <i>Navel</i>	North centre (MITIDJA)	15 780	110
- <i>Blood</i>	North centre (MITIDJA)	7 500	-
- <i>Acidless</i>	East (BOUNAMOUSA)	-	-
Mandarins & Mandarin-like	East (SAF SAF)	13 950	90
Mandarin hybrids	West (HABRA, MINA)	-	-
Lemons	West (HABRA, MINA)	3 000	120
Grapefruit	West (HABRA, MINA)	150	150
Others	-	3 020	110
Totale		46900	

Citrus phytosanitary problems

Pathogens		Diseases		References
Virus and virus-like				
CVV		Inf. Variegation/Crinkly leaf	X	(Bové, 1995)
CiLRV		Leaf rugose	X	(Bové, 1995)
CPsV		Psorosis	X	(ITAF, Report 1979); (Bové, 1995)
SDV		Satsuma dwarf		
CTLV		Tatterleaf/Citrange stunt		
CTV		Tristeza	X	(ITAF Report, 2001); (Bové, 1995)
CVEV		Vein enation/Woody gall		
		Concave gum	X	(ITAF, Report, 1979); (Bové, 1995)
		Cristacortis	X	(ITAF, Report 1982); (Bové, 1995)
		Impietratura		
CEVd		Exocortis	X	(ITAF, Report 1980); (Bové, 1995)
CCaVd		Cachexia	X	(ITAF, Report 1985); (Bové, 1995)
CVds		Citrus viroids		
		Chlorotic dwarf disease		
		Gummy bark	X	(Bové, 1995)
Fungus				
<i>Phytophthora</i> sp		Phytophthora gummosis	X	(ITAF Report 1985); (Bové, 1995)
<i>Fusarium</i> sp, <i>Roselinia</i> sp		Root rot		
<i>Phoma tracheiphila</i>		Mal secco	X	(Bové, 1995)
Bacteria and Bacteria-like				
<i>Pseudomonas syringae</i>		Blast and Black pit		
<i>X. axonopodis</i> pv <i>citri</i>		Citrus canker		
<i>Candidatus</i> L. <i>asiaticus</i>		Greening		
<i>Candidatus</i> L. <i>africanum</i>				
Nematodes				
<i>Tylenchulus semipenetrans</i>			X	(Bové, 1995)
<i>Pratylenchus vulnus</i>				
Phytoplasmas				
<i>Spiroplasma citri</i>		Stubborn	X	(ITAF Report 1985); (Bové, 1995)
		Witches' broom		

X= present in the country

Citrus germplasm

Location	Date of creation	N° of accessions*	Characterization		
			morphological	tureens-to-type	sanitary
National					
ITAF Station -Boufarik	1963	168	Partial	Partial	-
Regional					
ITAF Station - Beni Tamou	1978	46	X	X	-

Citrus germplasm list

Varieties/Species	
Mandarins and mandarin-like	
Clementine 36	
Clementine 38	
Clementine 61	
Clementine 62	
Clementine 63	
Clementine 64	
Clementine 71	
Clementine 36	
Clementine38	
Clementine 61	
Clementine 62	
Clementine 63	
Clementine 64	
Clementine 71	
Clementine 2749	
Fremont 01	
Iwagtoo 01	
Page 01	
Pixie 01	
Ortanique 01	
Avana Tardivo 01	
Avana Apirene 01	
Ananas 01	
Murcott 01	
Cearson 01	
Fairchild 01	
Commune 118	
Carval Hal 01	
Kara 165	
Kinnow 26	
Satsuma.S ^t Jean 108	
Satsuma Kowano 167	
Tangelo Nova 01	
Sweet oranges	
D.F. Améliorée B7	
D.F. Améliorée A5	
D.F. Améliorée E1	
D.F. Améliorée E2	
D.F. Améliorée E3	
Thomson Navel 215	
Tarocco 23	
Tarocco d'Italie 57	
Shamouti 85 M ^{me} Vinous Hamlin Cine apple Cears Brown Valencia Late 248 Valencia Late 247 Valencia Late Campbell Valencia Late Olinda Moro 24 Washington Navel 141 W.N. 39 W.N. 205 W.N. 251 Newhall Q8 Newhall Q1 Newhall N4 Newhall N5 Newhall Navelina Navelate Grapefruits Marsh Shambard Red Blush Thompson Lemons and lemon-like Eureka 4S Lisbon 16 Lisbon 6 Feminello Santa Teresa Lime Tahiti	

Citrus programmes

Programmes	Proposed	Running	Legislation
Clonal and sanitary selection	Sanitary and clonal selection of 13 varieties	1998 – 2004 by ITAF	
Monitoring, eradication and control of quarantine pests	DPVCT programme Monitoring of quarantine diseases (CTV, <i>S. citri</i>)	2000 – present	
Certification	Certification of ITAF plots	1993 – present	93/284, 23/11/93
Quarantine			National law
Others	Studies on the varietal collection	1999	

DPVCT: Ministère de l'Agriculture Direction de la Protection des Végétaux et de Contrôle Technique
ITAF: Institut Technique d'Arboriculture Fruitière

Public and private institutions working in citrus

Institutions or others	Location	Type of activity	Personnel		Facilities
			Number	Qualifications	
Public					
ITAF	Boufarik	Germplasm maintenance and pathogen detection	05	Engineer	Screenhouse Greenhouse Laboratories
Centre National de controle et certification (CNCC)	Alger	Certification controls for trueness-to-type and sanitary status	01	Engineer	Laboratories
Institut National de Recherche Agronomique (INRA)	Alger	Research Control of quarantine diseases	01	Engineer	Laboratories
Direction des Services Agricoles (DSA)	National	Border controls	48	Engineer	-
Chambre Nationale d'Agriculture	Alger	Legislation and marketing of agricultural products	48	-	-
Private					
Union Nationale des Paysans Algeriens (UNPA)	Alger	Burocratic and legislative support to growers	-	-	-

Financial Table

Project steps	Facility/instruments/activity	Units	Cost (€)
Inventory	GPS	3	15.000
	GIS	1	8.000
Conservation for characterization	Planting and equipments for the conservation field	3 Ha	75.000
Genetic and agronomic characterization	Laboratory equipments and running materials	1	200.000
Physiological WUE characterization	Laboratory equipments and running materials	1	50.000
Sanitary assessment	Laboratory equipments and running materials	1	85.000
	1 Indexing greenhouse, equipments (benches, shade etc...) and running materials	200 m ²	200.000
	1 Insect-proof screenhouse	300 m ²	120.000
Sanitation	Equipments for <i>in vitro</i> laboratory	1	100.000
	1 thermotherapy chamber	1	30.000
	1 conditioned greenhouse	200 m ²	100.000
Conservation <i>in vitro</i>	Equipments for <i>in vitro</i> laboratory	1	100.000
Conservation <i>in vivo</i> and assessment of pomological traits	1 Insect-proof screenhouse	700 m ²	300.000
Training	Short-courses		200.000
	Stages		300.000
	Technical visits		220.000
	Travel expenses		100.000
Missions and part time personnel			120.000
Supply	Transport vehicle	2	60.000
	Books, publications, CD		3.000
	PC and printer	1	3.000
General expenses			238900
TOTAL			2.412.890

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"

الجمهورية الجزائرية الديمقراطية الشعبية وزارة الفلاحة

الأمين العام

الخطاب

الخطاب

AU

PROFESSEUR ONDER TUZCU

Coordonnateur du Réseau Mecinet.

University of Gukurova Faculty of Agriculture,
Department of Horticulture 01330, Adana TURKEY
Fax : 90.322.3386.388
e mail : Otuzcu a mail.eu.edu.tr.

OBJET: Lettre d'intention d'adhésion au projet sur
« l'Amélioration des agrumes dans le bassin Méditerranéen ».

Monsieur,

Suite aux conclusions de la première rencontre technique et scientifique commune du MNCC et du MECINET, qui a eu lieu à Alger en Octobre 2000, sur le projet d'amélioration des agrumes dans les pays méditerranéens, j'ai l'honneur de vous confirmer notre intention d'adhésion à ce projet ; en attendant la prochaine réunion qui aura lieu en EGYPTE fin 2001 pour l'élaboration du règlement intérieur du projet.

Veuillez agréer, Monsieur, mes salutations distinguées.

COPIE

Mme A. M. D'ONGHIA,
Coordonnateur MNCC (AMBAR)
Istituto Agronomico Mediterraneo
Via degli, 25/700.10 Valenzano (BA) ITALY.

