

Water Scarcity & Water Cooperation nel bacino del Mediterraneo Final Conference

INEA - 9 Febbraio 2015

Giulia Roder - Università degli Studi di Padova



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❖ QUESTIONARIO POST PROGETTO:

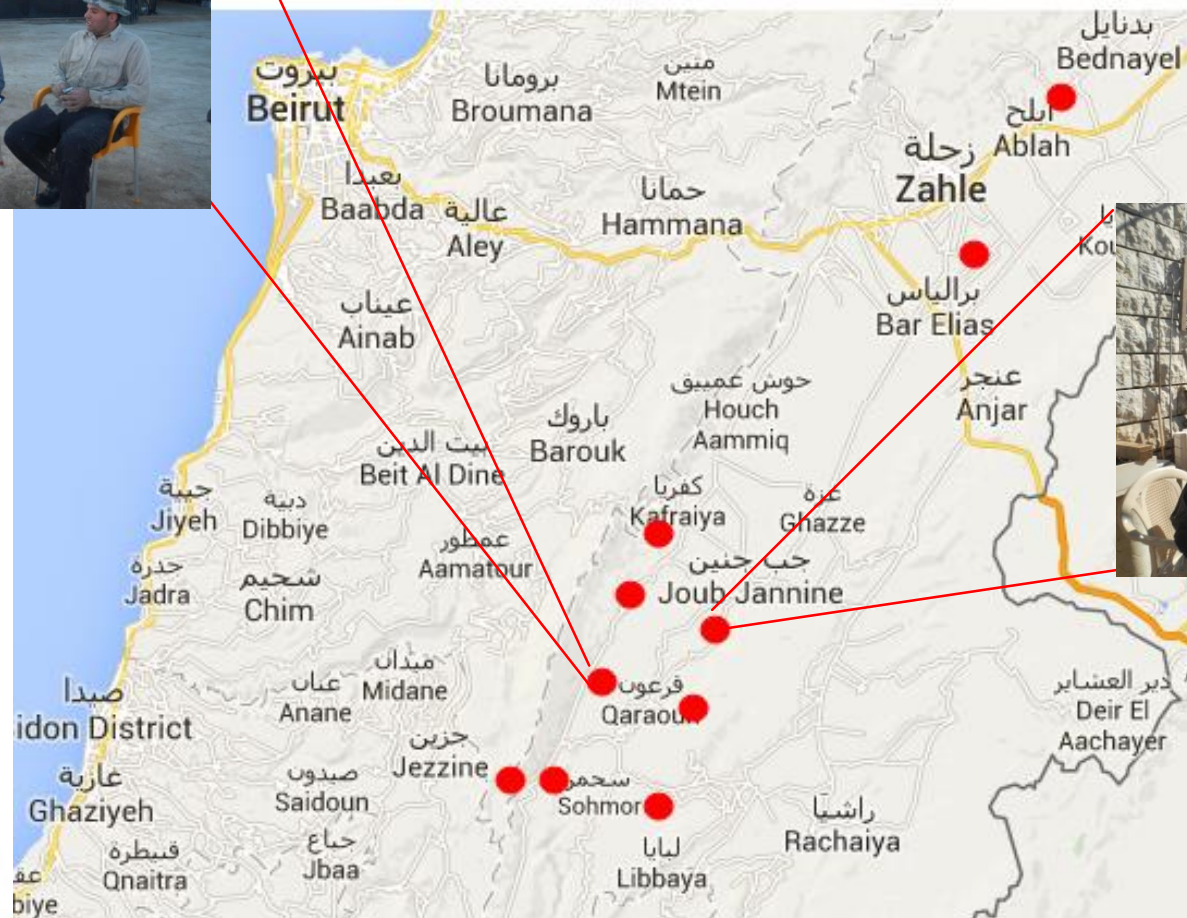
- Ammontare della produzione agricola,
- Reddito derivante dalla produzione agricola,
- Tipo e quantità di fertilizzante usato,
- Prezzo unitario del fertilizzante usato,
- Tipo e quantità di pesticidi usati,
- Prezzo unitario dei pesticidi usati,
- Frequenza di irrigazione,
- Quantità totale di acqua utilizzata durante la stagione.



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30 beneficiari in
8 villaggi:

- Mashghara
- Karauon
- Lela
- Kilia
- Jib Jannine
- Sohmor
- Kfarmeshki
- Kherbet Kanafar
- Marj
- Tal Amara



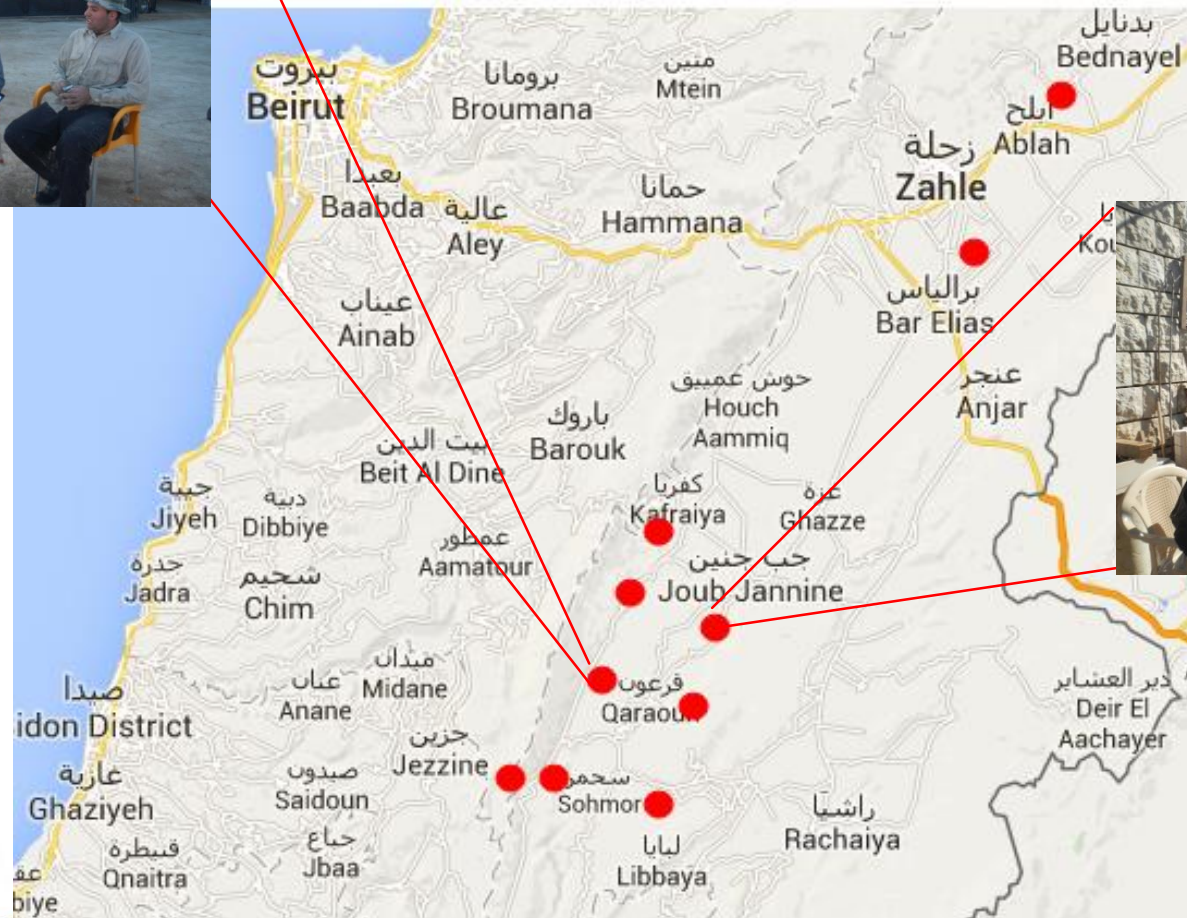
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❖ Feedback positivo degli agricoltori:

- > produttività
- > reddito
- < consumo di energia
- < consumo idrico

❖ Creazione di un database di facile consultazione e manipolazione dei dati



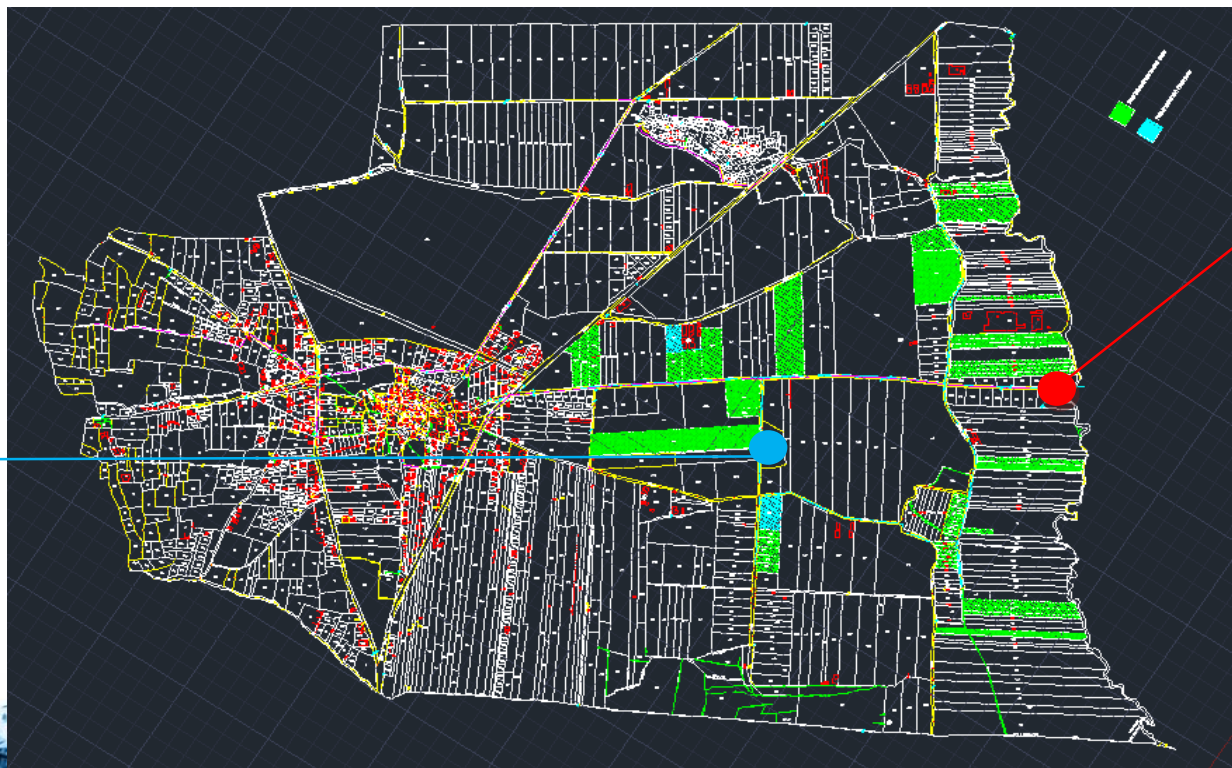
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❖ Sistemazione del database

Caratteristiche del lotto							Sistema irriguo, fonte di approvvigionamento, consumo idrico							Fertilizzazione e pesticidi					Raccolto e reddito			
Farmer's name	No.	Plot	Plot extension (m ²)	N° plants	Density (trees/ha)	Main crop	Irrigation system	Irrigation pump	Water source	Irrigation season	Irrigation frequency	Amount of water per intervention (m ³)	Irrigation expense (LBP/year)	Pesticides used	Pesticide expense (LBP/year)	Fertilizers used	Fertilizer expense (LBP/year)	Agricultural	Yield	Selling price	Income (LBP/year)	Property certificate
Abou Zaydan Reouk	1	534	2000	201	701	Grapes			Barin in Fuzul	Jun-Sep	Once a week				20-20-20 200g beginning of the season; 17-17-17 2 kg end of the season						20,000,000	
Baraybar Elie	2	564 to 566	20000	1500	750	Grapes	Drip	Electrical	Barin in Fuzul	Jun-Sep	Once a week										3,000,000	Yes
Baraybar Faraj	3	565-569 (192)	3000	325	1044	Wild cucumber	Surface	Diesel	Well (2,5m)	Jun-Aug						NK (200g/plant once per year)		5,000,000	70 tan/ha	500 LBP/kg (2000 kg)	5,000,000	Yes
Arsamenian Wolkon	4	463	4500	344	764	Grapes	Drip (1 hole/40 cm)	Electrical	Well	Jun-Sep	15-20 h first time, then 2h/2 days		500,000 (electricity)			NK manure nutrient	200,000	600,000	3 tan	1.5 tan/1,500 LBP/kg; 1.5 tan/600 LBP/kg	1,000,000	Yes
Naji Yunis	5	532	3000	205	633	Grapes	Surface (spaghettii)	Electrical	Well	May-Nov	Every day (2 seasons)		200,000-500,000		200,000	NPK manure nutrient	200,000	600,000	3 tan	(1) 1350 LBP/kg, (2) 750 LBP/kg		No
Abu Zaydan Elvar	6	643 to 670	7000	571	816	Grapes	Spaghettii		Buying	Jun-Aug	4 hours/2 weeks		40,000*10m ³		450,000	NPK manure nutrient	450,000	2,200,000	3.5 tan	1,500 LBP/kg	10,000,000	No
Abdou Youssef	7	717 to 719	19000	1805	950	Grapes	Drip, spray	Diesel	Well	Jun-Aug	Every 15 days/12 h	650m ³ /du/year	1,200,000		100,000	NPK + micro nutrients	3,340,000	40,000,000	(1) 35 tan black grapes 6 tan, (2) 11 tan red grapes older 12	(1) 1350 LBP/kg, (2) 750 LBP/kg		No
Abda Soma	8	620				Grapes	Drip	Electrical	Well	Jun-Sep	Every 3 days/3-4 h					NPK manure nutrient		15,000,000	4 tan			Yes
	9	621-625	5000	478	956	Grapes	Drip	Electrical	Well	Jun-Sep	Every 3 days/3-4 h					NPK manure nutrient		15,000,000	4 tan			Yes
	10	672-679	6000	585	975	Grapes	Drip	Electrical	Well/Canal	Jun-Sep	Every 5 days	100 m ³ /5 days				NPK manure nutrient, NPK mixed, manure	8,000,000	40,000,000	1500 kg/du			No
Youssef Jabbar	11	529-530	4500	406	902	Grapes	Drip						500,000			NPK mixed		15,000,000				Yes
Georgor Khalil Baraybar	12	571	5300	665	1236	Grapes																Yes
	13	712	1000	162	900																	Yes
	14	723																				Yes
Nabih Baraybar	15	570	3000-5000	784	1960		Spaghettii/surface	Diesel	River		2 seasons		300,000		525,000		525,000	2,000,000	6-7 tan	500 LBP/kg		Yes
Georgor Youssef Baraybar	16	553	5000-10000	1128	1504	Grapes	Surface	Diesel	River	Jun-Jul	Every 20 days		300,000		750,000		900,000	5,000,000				Yes
Fadi Abou Zaqheib	17	374	7600	633	833	Grapes	Surface	Electrical	Well	Jun-Sep	Every 15 days	300 l/tree	550,000		605,000	NPK manure mixed, manure	1,800,000	4,000,000	17 tan/plot			No
Wadih Khazakal/Michael Maslauf	18	1134																				
	19	592	10000			Grapes	Drip	Diesel	Buying	May-Sep	Every 7 days	300 m ³ /du				NPK manure mixed, manure			3 tan/du			
	20	594	45000			Grapes	Drip (15 du)		Buying	May-Sep	Every 7 days	5000 m ³ /du				NPK manure nutrient			3 tan/du		15,000,000	
	21	476																				
Hamdan Abu Adnan	22	465				Grapes	Drip		Well				1,500,000		1,500,000	15/15/15 + potassium (complex)	1,500,000					
Andre Braithwaite/Brahim Braithwaite	23	472*	10000			Grapes							1,000,000		1,000,000	17/17/17 (1.5 tan)	1,500,000		10-15 tan			
Alfraz Bau Chahab	24	456	25000				Nano		Nat exsiting						1,750,000	15/15/15 (300 Kg)	1,000,000		2.5 tan		2,000,000	
Jean Michael Braithwaite	25	1611	5000			Grapes	Nano		Nat exsiting						1,000,000		5,000,000				4,000,000 - 5,000,000	
Georgor Bau Chahab	26	1695	3500			Grapes	Nano		Nat exsiting						1,400,000	15/15/15 (400 kg)	1,000,000		5 tan		3,000,000	
Joseph Jabbar	27	705	6000			Grapes	Drip		Well		6 days		750,000		1,200,000	20/20/20 (90kg/du)+ Ammanium.rulfate (90 kg/du)	1,200,000		12 tan			
		1211	7600			Grapes	Drip		Well		6 days		960,000		1,520,000	20/20/20 (90kg/du)+ Ammanium.rulfate (90 kg/du)	1,520,000		14 tan			
Nicar Mhanna	28	454				Grapes	Drip		Well/purchase				1,000,000		1,000,000	15/15/15 + ammanios (500 kg)	1,000,000		2 tan/du		7,500,000	
Abu Hamdan Rida	29	464				Grapes	Drip		Well				5,000,000		5,000,000	15/15/15 + potassium	5,000,000				45,000,000	
Mhanna Rizk	30	1649				Grapes			Well/purchase				50,000		50,000	15/15/15 + potassium + ammanios	100,000	800,000	6 tan			
Robert Kfoury	31		24000			Grapes		Diesel		Jun-Sep	8 days	2480m ³	332,000 (manure)* 4500,000		2,520,000	NPK (4 tan/year)	5,550,000		8-30 tan			

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❖ Delimitazione delle aree catastali in AutoCAD



Impianto di depurazione
dell'acqua

Bacino di contenimento

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❖ Progettazione del bacino:

Elaborazione dati

- Considerato il fabbisogno idrico della vite, le condizioni climatiche e le pratiche realisticamente realizzabili sono stati calcolati 1.920,00 litri per pianta a stagione;
- Prevista l'installazione d' impianti di irrigazione a goccia che comprendano due *dripper* per pianta con una portata di 16 l/h ciascuno. L'irrigazione verrà effettuata per 5 ore alla settimana;
- Totale per tutta la stagione nell'area di Ablah, 26.880.000,00 litri.

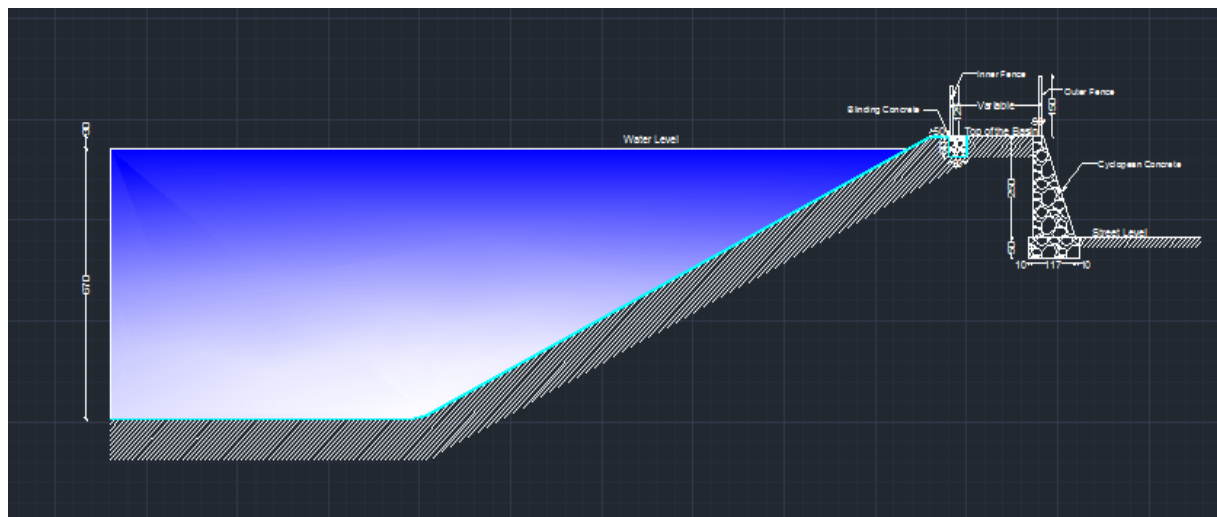


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❖ Progettazione del bacino:

Elaborazione dati (2)

- Necessità di un bacino di contenimento di circa 15.000,00 m³



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❖ Necessita' formative

- Ministero dell'Agricoltura
- Agricoltori

Questionnaire for training of Extension Agents and MoA Staff

Full Name: _____ Age: _____

Department/Field Office: _____

Education Degree: _____ Field of Expertise: _____

Level of English:

	Basic	Intermediate	Advanced
Spoken	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Written	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comprehension	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Did you participate in other training courses? ☐ Yes ☐ No

If yes, list their topics: _____

Which of the following topics would you include in your training: (max 3 choices)

Farm Management <input type="checkbox"/> Monitoring and record keeping <input type="checkbox"/> Best Agricultural practices <input type="checkbox"/> Post-harvest management <input type="checkbox"/> Management of farm nutrients and wastes <input type="checkbox"/> Other.....	Water <input type="checkbox"/> Irrigation and water management <input type="checkbox"/> Weather assessment and crop water requirements <input type="checkbox"/> Use of treated waste water <input type="checkbox"/> Other.....	Protection <input type="checkbox"/> Crop monitoring <input type="checkbox"/> IPM <input type="checkbox"/> Organic Control <input type="checkbox"/> Other.....
Environment <input type="checkbox"/> Pollution <input type="checkbox"/> Renewable energies <input type="checkbox"/> Biodiversity <input type="checkbox"/> Other.....	Public Relation <input type="checkbox"/> IT and communication <input type="checkbox"/> Marketing and labeling <input type="checkbox"/> Cooperatives benefits <input type="checkbox"/> Other.....	Research <input type="checkbox"/> Data collection and analysis <input type="checkbox"/> Sample collection (soil, water...) <input type="checkbox"/> Report writing <input type="checkbox"/> Other.....

Other Topics: _____

Questionnaire for training of Farmers

Full Name: _____ Age: _____

Did you participate in other training courses? ☐ Yes ☐ No

If yes, list their topics: _____

Which of the following topics would you include in your training: (max 3 choices)

Farm Management <input type="checkbox"/> Monitoring and record keeping <input type="checkbox"/> Best Agricultural practices <input type="checkbox"/> Post-harvest management <input type="checkbox"/> Management of farm nutrients and wastes <input type="checkbox"/> Other.....	Specific Crop Management <input type="checkbox"/> Medicinal plants <input type="checkbox"/> Grapes <input type="checkbox"/> Olives <input type="checkbox"/> Fruits <input type="checkbox"/> Vegetables <input type="checkbox"/> Cereals <input type="checkbox"/> Other.....	Water <input type="checkbox"/> New techniques (Doseatron, drippers...) <input type="checkbox"/> Weather assessment and crop water requirements <input type="checkbox"/> Use of treated waste water <input type="checkbox"/> Routine maintenance of irrigation system <input type="checkbox"/> Other.....
Protection <input type="checkbox"/> Crop monitoring <input type="checkbox"/> IPM <input type="checkbox"/> Organic Control <input type="checkbox"/> Farm safety <input type="checkbox"/> Other.....	Environment <input type="checkbox"/> Pollution <input type="checkbox"/> Renewable energies <input type="checkbox"/> Biodiversity <input type="checkbox"/> Other.....	Public relation <input type="checkbox"/> Market <input type="checkbox"/> Labeling <input type="checkbox"/> Cooperatives benefits <input type="checkbox"/> Other.....

Other Topics: _____

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❖ Programma per le analisi dei suoli e delle acque con stima dei costi



Grazie per l'attenzione

