

BADIA RESEARCH & DEVELOPMENT CENTRE		FIELD UNIT	F1
Principal Topic:	AGRICULTURE		
Location:	Al-A'tal Fruit Farm		
Related Topics:	<ol style="list-style-type: none"> 1. Settlement 2. Desertification 3. Sustainability 		
Questions:	<ol style="list-style-type: none"> 1. What makes this place suitable for fruit farming? 2. How are the natural obstacles overcome? 3. How is the fruit crop managed? 4. Where is the fruit marketed? 		
Hypotheses:	<ol style="list-style-type: none"> 1. The farm is in a sheltered position. 2. Water is pumped; cool stores preserve fruit 3. The seasonal programme is regular; seasonal staff are employed. 4. Amman is the main market. 		
METHODS:		EQUIPMENT:	
<ol style="list-style-type: none"> 1. Meet the farmer 2. Ask him specific questions 3. Visit the orchard to see how managed 4. Visit the cool store 5. Annotated field sketch from near to Assam cave 	Farming questionnaire(FRS-15) Camera Tape recorder Sketch pad etc Assam field sketch (FRS-16)		
NOTES:			
<p>This visit can be linked to Field Unit AL4 (Assam Cave), Field Unit C1 (Traditional Lifestyles) and Field Unit F2 (Rangelands)</p> <p>NB: The questionnaire is generic (i.e. designed to cover a variety of farms and not just this farm). Use it as a catalyst to design your own questions.</p>			

FRS-15: GENERIC FARM QUESTIONNAIRE

A: CONCERNING WATER SUPPLY

1	What type of water do you use?	Mains supply:	
		Local well:	
		Harvested water:	
		Just rain:	
2	Where does the water come from?	(a) Local rain water?	
		(b) Rain from surrounding hills?	
		(c) Rain from the Ice Age?	
3	Is the water only for this farm?	Yes	
		Other:	
4	What are the main uses of the water?	(a) Agricultural:	%
		(b) Domestic:	%
		(c) Industrial:	% eg.?
5	How deep do the wells go?		
6	Into what kind of rock?		
7	Is there enough water for present/future needs?	YES/NO	
8	What is the future projection? (years) How long is it expected to last?		
9	Is salt accumulation a problem?	YES/NO	
10	What is the reason for this?		
11	What are the solutions?		
12	Is deep water drilling expensive?	YES/NO	
13	Is it really worthwhile from an economic point of view?	YES/NO	
	Reasons?		

B: CONCERNING THE FARM

1	When did the farm start?	<input type="text"/>	Why?	<input type="text"/>
2	What is the size of the farm? (hectares/dunums)	Ha/Dun		
3	What crops are grown?	Cereals:		Ha/Dun
		Potatoes:		Ha/Dun
		Tomatoes		Ha/Dun
		Aubergines:		Ha/Dun
		Water melons:		Ha/Dun
		Fruit trees:		Ha/Dun
		Types?		Ha/Dun
				Ha/Dun
				Ha/Dun
				Ha/Dun
4	Is there any particular reason why these crops are grown rather than any others?			
	<input style="width: 100%; height: 100%;" type="text"/>			
5	Is there any livestock?	Number: <input type="text"/>	Type: <input type="text"/>	Uses: <input type="text"/>
6	How would you describe the soil?	Sandy/sandy loam/loam/clayey loam/clayey		
7	What types of irrigation do you use?	Dry Farming?		Is this a successful technique? YES/NO
		Overhead Irrigation?		
		Drip irrigation?		
		Other?		
8	Do you need to fertilize the soil?	YES/NO		
	With what fertilizers?	<input type="text"/>		
9	How many labourers do you employ?	Permanent:		<input type="text"/>
		Seasonal:		<input type="text"/>
10	What sort of wage to labourers receive?	<input type="text"/> day/week/month/year?		
11	Where do the labourers come from?	Local Bedouin?		
		Overseas labour?		
		Others?		
12	If Bedouin are not employed, why not?			
	<input style="width: 100%; height: 100%;" type="text"/>			
13	Where do the labourers live while working on the farm?			
	<input style="width: 100%; height: 100%;" type="text"/>			

B: CONCERNING THE FARM Continued

14	What agricultural machinery do you use?	
	Seed drills <input type="text"/>	Tractors: <input type="text"/>
	Combines <input type="text"/>	Ploughs: <input type="text"/>
		Other: <input type="text"/>
15	Which is the most important input to the farm?	Reason? <input type="text"/>
		Labour: <input type="text"/> Machinery: <input type="text"/> Other: <input type="text"/>
16	Where does the produce go?	Percent? <input type="text"/>
		Government? <input type="text"/>
		Market Traders in Amman/Aqaba? <input type="text"/>
		Overseas markets? <input type="text"/>
		Other? <input type="text"/>
17	How do you see the future of the farm as an economic unit?	

FRS-16: Panorama from Assam Cave north towards the village of Umm Al-Quttayn

