



OFID: Socio-economic survey

## Different practices in rangeland depressions

Questionnaire No.

Province: .....

Name of the site (traditional, tribal name): .....

Community name: .....

Distance to the nearest pasture reserve (if appropriate) : .....

Date: .....

Enumerator: .....

We are scientists from ICARDA (or NARS) working on a solution to the land degradation problem in the *Badia*.

The purpose of the survey is to compare practices like barley cultivation in the depressions and improved rangeland in *Badia* in terms of economic viability in the long term.

**In case the surveyed person does not have  
use to any landscape depressions please  
look for another person**

في حال لا يوجد لدى الشخص الذي نقوم بإجراء المسح معه فرصة يرجى  
البحث عن شخص آخر لديه فرصات

## A A. Natural rangeland depressions identified

A1 A.1. How do you describe the *Marab* (local expression for depressions) in terms of:

A11 A.1.1. ...soil moisture? (dry=1; moderate=2; moist=3)

A12 A.1.2. ...soil fertility? (poor in organic material=1; moderately fertile=2; fertile and rich=3)

A13 A.1.3. ...soil deepness? [shallow (0–15cm) =1; deep (>15cm) =2]

A14 A.1.4. ...surrounding slope? [flat (0°–5°) =1; gentle (5°–10°) =2; steep (> 10°) =3]

A2 A.2. How many *Marab* (depressions) are there in the rangeland of your community?

## B Characterization of the land potential (soil, water, vegetation, and climate)

B1 B.1. Do you have any depressions in your community?

(yes=1; no=0)

If “yes” please answer the questions under B here below, if “no” go to C.

B2 B.2. Over the years, have you noticed a change in biodiversity (plant variety) in depressions? (no change=0; increased=1; decreased=2)

B3 B.3. If increased, which species have you observed spreading?

1 = *Peganum harmala* 4 = others, specify

2 = *Noaea mucronata* 5 = others, specify

3 = *Haloxylon articulatum*

B4 B.4. If decreased, which species disappeared or are disappearing?

1 = *Malva* spp. 4 = others, specify

2 = *Helianthemum* spp. 5 = others, specify

3 = *Hordeum* spp.

B5 B.5. Is there any rangeland plant species that only grow in the depressions?

(yes=1; no=0);

**B6** B.6. If yes, which?

**B7** B.7. How do you evaluate the current status of vegetation in depression sites close to your village or community?

(Overgrazed = 1; moderately degraded = 2; protected = 3)

**B8** B.8. If overgrazed or moderately overgrazed, what are the reasons?

1 = increasing herd size                      4 = others, specify

2 = lack of alternative grazing    5 = others, specify

3 = climate change

**B9** B.9. What types of land management do you have for your rangelands? (several possibilities are possible)

1 = Open access

2 = traditional land use system (*Hima* or other systems)

3 = Private land

4 = Other, specify

## C Documentation of past/current depressions land use dynamics

### C.1 Characteristics of the depressions

**C11** C.1.1. How many depressions are used commonly by the community?

**C12** C.1.2. Commonly used depressions that you share with others

	Depr.	Area	Mode of use			Users (community name, province, distance)		Arrangements for use
			10 yrs ago	5 yrs ago	Today	Name	Number of	
<b>C121</b>	1.	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>		<b>E</b>	
<b>C122</b>	2.	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>		<b>E</b>	
<b>C123</b>	3.	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>		<b>E</b>	
<b>C124</b>	4.	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>		<b>E</b>	

**C13** Depressions use: Barley cultivation **(1)**, shrubs plantation **(2)**, Olive trees orchards **(3)**, Rangelands **(4)**.....

**C131** C.1.3. Depressions exclusively under your control

	Depression	Area	Mode of use		
			10 years	5 years ago	Today
<b>C1311</b>	1.	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>C1312</b>	2.	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>C1313</b>	3.	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>

**C132** C.1.4. Flock size and structure

	Species	Number
<b>A</b>	Sheep	
<b>B</b>	Goats	
<b>C</b>	Camels	
<b>D</b>	Others (please specify)	

## C.2 Open grazing:

**C 21** C.2.1. How do you feed your flock in wet, moderate, and dry years?

	Forage calendar	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	In wet or good year												
<b>C 211a</b>	Natural rangeland	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>	<b>K</b>	<b>L</b>
<b>C 212a</b>	Improved rangeland (if available)												
<b>C 213a</b>	Depressions/green barley												
<b>C 214a</b>	Post-harvest barley (stubble grazing)												
<b>C 215a</b>	Olive residues												
<b>C 216a</b>	Not harvested barley grazing												
<b>C 217a</b>	Supplementary feed (specify)												
<b>C 218a</b>	Subsidized feed provided by the government												
<b>C 219a</b>	Cultivated fields/ green barley grazing												
<b>C 220a</b>	Straw												
<b>C 221a</b>	Fields Post-harvest barley (stubble grazing)												
<b>C 222a</b>	Crop residues												
<b>C 223a</b>	Others (specify)												
	In average year												
<b>C 211b</b>	Natural rangeland												
<b>C 212b</b>	Improved rangeland (if available)												
<b>C 213b</b>	Depressions/green barley												
<b>C 214b</b>	Post-harvest barley (stubble grazing)												
<b>C 215b</b>	Olive residues												
<b>C 216b</b>	Not harvested barley grazing												
<b>C 217b</b>	Supplementary feed (specify)												

C 218b	Subsidized feed provided by the government												
C 219b	Cultivated fields/ green barley grazing												
C 220b	Straw												
C 221b	Fields Post-harvest barley (stubble grazing)												
C 222b	Crop residues												
C 223b	Others (specify)												
	In dry year												
C 211c	Natural rangeland												
C 212c	Improved rangeland (if available)												
C 213c	Depressions/green barley												
C 214c	Post-harvest barley (stubble grazing)												
C 215c	Olive residues												
C 216c	Not harvested barley grazing												
C 217c	Supplementary feed (specify)												
C 218c	Subsidized feed provided by the government												
C 219c	Cultivated fields/ green barley grazing												
C 220c	Straw												
C 221c	Fields Post-harvest barley (stubble grazing)												
C 222c	Crop residues												
C 223c	Others (specify)												

**C22 C.2.2. Price for supplementary forage (local currency/unit)**

	Supplemental forage	Wet or good year	Moderate	Very dry	2015/2016
<b>C221</b>	Barley grain	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>C222</b>	Subsidized fodder	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>C223</b>	Straw	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>C224</b>	Others	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
	OTHER costs	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>C225</b>	Water (sheep*period)	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>C226</b>	Veterinarian + vaccination (sheep*period)	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>C227</b>	Labor, shepherd (sheep*period)	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>

### C.3 Cultivation of barley in the depressions:

**C31** C.3.1. What do you cultivate in the depressions?

C.3.1. Barley (1) C.3.2. Olive trees (2) C.3.3. Other (what ....) (3)

**C32** .3.2. How often do you cultivate? (Every year=1; every two years=2; occasionally=3)

**C33** C.3.3. Do you practice fallow? (yes=1; no=0)

**C34** C.3.4. Do you practice crop rotation? (yes=1; no=0)

**C35** C.3.5. If yes, which crops?

**C36** C.3.6. If no, why not?

**C37** C.3.7. Would you like to try crop rotation with forage legumes? (yes=1; no=0)

**C38** C.3.8. What types of forage legumes are available in your region?

**C39** C.3.9. What are the prices of the forage legumes (in local currency)?

#### C.3.10. Distribution of good and bad years

	<b>C310</b>	<b>C311</b>	<b>C312</b>
How many of the last 10 years were:	Good (up to 10 t barley harvested)	Moderate (5 t and less)	Bad (total loss)

**C313** C.3.11. How many times (years) in last 10 years did you harvest . . . :

**C314** C.3.11.1. . . . green barley + grain + straw ? **C315** C.3.11.2. . . . grain + straw ? **C316** C.3.11.3. . . . green barley (without harvesting)? **C317** C.3.11.4. . . . nothing (total loss?)

**C318.** When exactly do you decide (exact date) to cultivate or not to cultivate barley in your depression -----

**C319.** What is the required annual rainfall to decide to cultivate barley in the depression-----

#### C.3.12. Output/yield



	End use of the cultivation	Very Good year	Good year	Moderate	Price
C320	Barley grain sold on the market (kg)	A	B	C	D
C321	Consumption for own flock (kg)	A	B	C	D
C322	Seed kept for next year (kg)	A	B	C	D
C323	Straw (animal?)	A	B	C	D
C324	Grazed green barley for own flock (sheep*period)	A	B	C	D
C325	Grazed for own flock (sheep*period)	A	B	C	D
C326	Rented to other herders (sheep*period)	A	B	C	D

### C.3.9. Barley production input:

		Price (local currency/unit), if applicable
C327	Cultivated area	
C328	Soil preparation + planting	
C329	Seeding method (hand broadcast=1; seeder=2)	
C330	Seed (kg/ha)	
C331	Labor (person/season)	
C332	Fertilizer(kg/ha)	
C333	Other inputs	
C334	Other costs (transport)	
C335	Harvesting	
C336	Labor (person/season)	
C337	Combine	
C338	Other mechanical	
C339	Other costs	

## Olive trees production

		Very good year	Good year	Medium	Price (local currency)
<b>C340</b>	Number of years to get olive production	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>C341</b>	Olive production (kg/year)	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
<b>C342</b>	Olive trees residuals used to feed animals	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>

Olive trees production input:

		Wet year	Average	Very dry	Price (local currency/unit), if applicable
<b>C343</b>	Cultivated area				
<b>C344</b>	Trees planting				
<b>C345</b>	Soil preparation				
<b>C346</b>	Olive trees seedling prices				
<b>C347</b>	Seedlings number/ ha				
<b>C348</b>	Labor (person/season)				
<b>C349</b>	Fertilizer(kg/ha)				
<b>C350</b>	Other inputs				
<b>C351</b>	Other costs (transport)				
<b>C352</b>	Harvesting				
<b>C353</b>	Labor (person/season)				
<b>C354</b>	Other costs				

## C.4 Improved rangelands

**C41** C.4.1. Are you involved in a rangeland improvement project? (yes=1; no=0)

**C42** C.4.1.1. If yes, which project?

**C43** C.4.1.2. If yes, how satisfied are you? (very satisfied=1; somehow satisfied=2;

not satisfied=3)

C44 C.4.1.3. If not involved, why?

C45 C.4.1.4. If not involved, are you ready to improve your rangeland anyhow? (yes=1; no=0)

C46 C.4.1.5. Would you be able to protect the depressions during and after improvement?  
(yes=1; no=0)

C47 If Yes, how:

C48 If no, Why:

## D General information about the household

**D1** D.1. How old are you? years

**D2** D.2. Highest education you completed (the head of the household):

(1) D.2.1. Koranic years

(2) D.2.2. Public school years, from which

(3) D.2.2.1. College years

(4) D.2.2.2. University years

(5) D.2.3. Self-taught

D.3. Your household family size

	from which...	Male	Female
<b>D31</b>	< 8 yrs	<b>A</b>	<b>B</b>
<b>D32</b>	8–15 yrs	<b>A</b>	<b>B</b>
<b>D33</b>	16–59 yrs	<b>A</b>	<b>B</b>
<b>D34</b>	> 59 yrs	<b>A</b>	<b>B</b>

**D4** D.4. Do you have off-farm income? (yes=1; no=0)

Income from other sources		2009
Remittances	From abroad <b>D41</b>	
	From other cities <b>D42</b>	
Government transfer (pension, etc) <b>D43</b>		
Other <b>D44</b>		

D.5. Farmer's name