



FARMING PRACTICES SURVEY
Round III 2010-2011

QUESTIONNAIRE N_o

Marz Code	Cluster/settlement code	Sample list type 1. baseline respondent 2. baseline hh other member 3. Tier One 4. Tier Two 5. MCA-Armenia credit borrower survey	Respondent ID	Interviewer Code	Questionnaire is valid Coordinator's signature	Questionnaire is checked Quality Control Member signature

Hello, my name is **(First name, last name)**. I represent AREG SCYA NGO, which implements Farming practices survey in the RA marzes by the order of "Millennium Challenge Account-Armenia". The published research will never report your answers linked to your name and will greatly contribute to the elaboration of projects directed to the agricultural development in Armenia.

Name of respondent

First Name, Middle Name, Last Name

Contacts of the respondent: phone number (code+number) _____
Mobile (code+number) _____

Date (day.month.year) _____

Start time (hh/mm) _____

HOUSEHOLD DESCRIPTION

A. LAND AND LIVESTOCK

A1. How many years have you been farming (excluding years in which the kitchen plot was cultivated alone)?

1. _____ years
98. Only ever cultivated a kitchen plot

A2. Did any changes take place in total area of your land in the last year.

1. Yes
2. No (then => A4)

A3. If yes, what was the main reason?

1. Purchase of additional land
2. Selling of the land
3. Divorce
4. division between other members of the family
5. ownership registration change
6. Other (specify)_____

A4. What is the total area of the land* owned and/or rented by your household and how much of your land did you actually irrigate during the last agricultural season, in 2010?

		Total agricultural land, ha	Of which:		
			Was possible to irrigate by network, sqm	Actually irrigated in 2010, sqm	of which: by irrigation network water, sqm
		1	2	3	4
1	Total, of which				
2	Arable land				
3	Orchards				
4	Vineyards				
5	The plot near the house/kitchen plot				
6	Other				

* the rented out land should not be included in the area

A5. What sources of irrigation do/did you use in 2010?

		Did you Irrigate by?			
		Irrigation water	Drinking water	Deep well and artesian well water	Natural sources/river/lake/collected rainwater, etc.
		1	2	3	4
1.	Arable land				
2.	Orchards				
3.	Vineyards				
4.	The plot near the house/kitchen plot				
5.	Other				

**Don't Know 96
Refused to Answer 97**

A6. Do you have livestock?

1. Yes, *to the Interviewer: fill in the table A7 below.*
2. No (then =>B1)

A7. Information on households' livestock

N	Item	Available livestock
1	Cow	
2	Pig	
3	Sheep and goat	

B. ROSTER OF CROPS GROWN DURING THE LAST AGRICULTURAL SEASON AND CHANGES THEREIN

B1. Crop production and utilization in the field (including kitchen plot) during the last year.

To the Interviewer: Use Card 1 to fill in the table and fill the numbers in fixed format.

N	Item (Input Code using the Card 1)	1. In the field 2. In the kitchen plot 3. Both	How much was cultivated?	How much was irrigated/watered?	Total amount harvested in the last season	Of which:		
			<i>Fill in the responses for each type of crops in format which is specified in Card 1 (only one column for each crop should be filled in: either sq.m, or number of trees).</i>	<i>Fill in the responses for each type of crops in format which is specified in Card 1 (only one column for each crop should be filled in: either sq.m, or number of tree).</i>		How much was sold?	How much was bartered?	
			sq. m./ number of trees	sq. m./ number of trees		Using units specified in Card 1	Using units specified in Card 1	AMD
	1	2	3	4	5	6	7	8
1.								
2.								
3.								
4.								
5.								
6.								
7.								
8.								
9.								
10.								
11.								
12.								
13.								
14.								
15.								
16.								
17.								
18.								
19.								
20.								

**Don't Know 96
Refused to Answer 97**

B2. During the past agricultural season, did you do any of the following practices?

To the Interviewer: Provide the respondent with Card 2. Check all applicable answers

Practice code	Used at the kitchen plot	Used at other land
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		
17.		
18.		
19.		
20.		
21.		
22.		
23.		
24.		
25.		
26.		

B3. During recent agricultural season, did you grow different crops from the previous year?

1. Yes
2. No (then =>B5)

B4. What is the main reason you changed your cropping pattern?

1. Improved irrigation
2. Lack of water
3. Weather
4. Market conditions
5. Cost of inputs
6. Government subsidies
7. Trying new varieties of crops
8. Access to training
9. Because of land resting
10. Other (specify)_____

B5. During the last agricultural season, did you bring any of your produce to a consolidation or collection center for it to be sorted and transported for selling?

1. Yes
2. No (then =>C1.)

B6. Approximately what fraction of your produce did you take to the consolidation center? (%)_____

**Don't Know 96
Refused to Answer 97**

C. WATER USE

C1. Do you have a personal tank, artesian well, or reservoir that you use to water crops?

1. Yes
2. No

C2. Do you have a personal pump that you use to pump water?

1. Yes
2. No

C3. What irrigation practices did you use during the last agricultural season at your kitchen plot and at other land?

To the Interviewer: Show CARD 3. Check all possible answers and fill the codes into the space below.

66. None of mentioned (then=>C5)

1. at the kitchen plot

2. at other land

C4. Did any of these practices help you save labor?

1. Yes
2. No

C5. Did you incorporate any agricultural practices that changed the way you use fertilizers or pesticides?

1. Yes
2. No

D. FARMING EXPENDITURES

D1.

N	Items	How much was spent on the mentioned items during the last season? AMD (or foreign currency expressed in AMD)	How much was spent on the mentioned items during the last season? <i>To the Interviewer: If items were bartered, write down the quantity of mentioned products expressed in drams, for example potatoes for 5000 AMD</i>
		1	2
1	All kind of fertilizers and pesticides		
2	Irrigation		
3	Hired labor and hired equipment or tools (including spare parts, fuel etc.)		
4	Taxes and duties		
5	Seeds and seedlings		
6	Cellophanes		
7	Other major expenses (specify)		

**Don't Know 96
Refused to Answer 97**

E. Trainings

E1. During the past year, was any farming or irrigation training offered in your community or nearby communities?

1. Yes
2. No (then =>F1)
96. Don't know (then =>F1)

E2. Did you or anyone else in your household attend any of the trainings?

1. Yes
2. No (then => F1)

E3. What kind of training was it? (To the Interviewer: Check all that apply)

1. water use and irrigation
2. land cultivation and crop production
3. other (describe)_____

E4. Did the person(s) who attended receive a certificate at the end of training?

1. Yes
2. No

F. Agriculture Equipment

F1. Do you currently own or rent any of the following?

No	Equipment	Check if Yes owner	Check if Yes rent/borrow
		1	2
1	Trucks and Tractors		
2	Combine		
3	Seed planter		
4	Sprayer		
5.	Kirov 6		

55. I don't have it

Don't Know 96
 Refused to Answer 97

G. Agricultural Credit

G1. Have you applied for a loan during last 5 years?

1. Yes
2. No (Go to section H)

G 2. Agricultural credit history in last 2 years or loan outstanding now that were received more than 5 years ago.

N	Source/Credit provider <i>/USE CARD 4/</i>	MCA credit 1.Yes 2.No	Amount applied for (AMD)	Amount received (AMD) In case application was rejected put "0" and go to the next line/ loan	Date received (year, month)	Annual interest rate	Are you on schedule with your payments? 1.Yes 2.No	Maturity data (year, month)	<ol style="list-style-type: none"> 1. Greenhouse 2. Orchards 3. Cold storage 4. Dry fruit 5. Livestock 6. Equipment (tractor) 7. Seeds/seedling/sprout 8. Land purchase/ renting 9. Non-agricultural purposes 10. Other 			
									Purposes (up to 2)	Collateral 1. yes 2. no⇒ go to the next loan/line	Collateral type: 1.Land 2.Real estate 3.Machinery 4.Car 5.Other	Collateral value, AMD
	1	2	3	4	5	6	7	8	9	10	11	12
1.						%						
2.						%						
3.						%						
4.						%						

**Don't Know 96
Refused to Answer 97**

H. CONSUMPTION AND MONETARY INCOME OF HH MEMBERS

H1. How much is spent by your family for the following purposes during a typical month?

<i>Cost Item</i>	<i>Drams</i>
1. Food	
2. Housing products (e.g. soap, washing powder etc).	
3. Public utilities (electricity, telephone, apartment rent, water, cell phone)	
4. Transport	
5. Other monthly costs (<i>specify</i>)	

H2. How much was spent by your family for the following purposes last year?

<i>Cost Item</i>	<i>Drams</i>
1. Healthcare	
2. Education	
3. Other annual costs	

H3. How much monetary income did your household receive from the following sources last year?

<i>Income</i>	<i>AMD</i>
1. Pension	
2. Remittances from HH absent members (abroad or other RA cities)	
3. Giving for rent land, transport, other	
4. Other benefits (social)	

**Don't Know 96
Refused to Answer 97**

I 1. I would like to make a complete list of all the members of your household, both present and absent. By saying a household I mean people who usually live together, share the same housekeeping and have the same budget. At first, I would like to write down the name of the person who makes most of agricultural decisions in your household, then his spouse, their children and then other members of the household. Do not include the visitors.

To the Interviewer: Circle the number of respondent in the column of h/h members.

Questions from 5 and 6 should be asked for farmer, spouse and their children over 16 only.

No of h/h member	Household members and their relationship to the head of h/h	Gender	Age (write down number)	If any of the household members who usually live here are currently absent, indicate by marking "1" in their row	During any stage of the last agricultural season, which people in the household were actively working in agriculture as their main activity?	What is the level of education completed? (starting from 16- year- olds)
	1.head 2.spouse 3.son/daughter 4.son in law/ daughter in law 5.grandchild 6.father/mother of head / spouse 7.sister/brother 8.other relatives of the head 9. persons that do not have any relationship to the head	1. male 2. female		1. Yes 2. No	1.non-educated 2.incomplete primary 3.primary 4.incomplete general secondary 5.general secondary 6.incomplete secondary 7.secondary (full) 8.secondary vocational 9.incomplete higher 10. higher 11. post-graduate	
	1	2	3	4	5	6
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

CARD 1

Code	Crop	Cultivation, irrigation units	Selling units
1.	Wheat	sq.m	t.
2.	Emmer Wheat	sq.m	t.
3.	Barley	sq.m	t.
4.	Maize	sq.m	t.
5.	Apple	number of trees	t.
6.	Grape	sq.m	t.
7.	Peach	number of trees	t.
8.	Apricot	number of trees	t.
9.	Pear	number of trees	t.
10.	Prunes	number of trees	t.
11.	Plum	number of trees	t.
12.	Fig	number of trees	t.
13.	Pomegranate	number of trees	t.
14.	Sweet Cherry	number of trees	t.
15.	Cherry	number of trees	t.
16.	Cornel	number of trees	t.
17.	Quince	number of trees	t.
18.	Water melon	sq.m	t.
19.	Melon	sq.m	t.
20.	Pumpkin	sq.m	t.
21.	Lemon	number of trees	t.
22.	Malta orange	number of trees	t.
23.	Walnut, hazelnut	number of trees	t.
24.	Strawberry	sq.m	t.
25.	Tomato	sq.m	t.
26.	Cucumber	sq.m	t.
27.	Eggplant	sq.m	t.
28.	Pepper	sq.m	t.
29.	Cabbage	sq.m	t.
30.	Carrot	sq.m	t.
31.	Squash	sq.m	t.
32.	Onion	sq.m	t.
33.	Garlic	sq.m	t.
34.	Potato	sq.m	t.
35.	Red beet	sq.m	t.
36.	Sunflower	sq.m	t.
37.	Haricot	sq.m	t.
38.	Tobacco	sq.m	t.
39.	Sorgo	sq.m	bunches
40.	Greens (coriander, basil, parsley, tarragon, etc.)	sq.m	bunches
41.	Grass (natural)	sq.m	t.
42.	Planting Stock	number	number
43.	Flowers	sq.m	pieces
44.	Gamma or other special feed	sq.m	t.
45.	Other fruits (specify)	Specify	Specify
46.	Other vegetables (specify)	specify	Specify

Card 2

1. **High value crop production instead of low value based on crop budget calculations**
2. **Crop/variety change based on market (fresh or processing) demand or request.**
3. **Orchard establishment or renewing (using regular trees)**
4. **Orchard establishment or renewing (using dwarf trees)**
5. **Greenhouse (glass) establishment or renovation**
6. **Greenhouse (plastic) establishment or renovation**
7. **Mixed cropping (associated cropping - planting more than one crop at a same time on the same place) to reduce the production risks**
8. **Production of non-traditional crops**
9. **Usage of high quality, disease resistant seeds/varieties or planting material (seedlings, potato tubers)**
10. **Multiple crop production (getting more than one yield per year)**
11. **Improved practices on soil preparation (plowing, cultivation etc.)**
12. **Improved post planting practices for vegetables in the open field (weeding, fertilization, pest & disease control etc.)**
13. **Shifting time of harvesting by using plastic tunnels or seedlings**
14. **Have used only the pesticides permitted in the Republic of Armenia**
15. **Have bought pesticide from licensed stores**
16. **Have bought pesticides only for a specific problem (diseases, insects), avoiding the residuals**
17. **Have paid attention on the packaging and the tare completeness of pesticides: did not bought damaged or pesticides with flowing**
18. **Have used personal protection equipments while working with pesticides (gloves, goggles, respirator, apron, top-boots and others)**
19. **Have done harvesting following the pesticide's waiting period**

- 20. Have not burned pesticides' residuals and tare, or throw them to the ditch/mudflow conduits anymore**
- 21. Have used non-chemical methods of pest and diseases management (vegetal infusions, traps, seizing belts)**
- 22. Have paid attention on the normalized usage of chemical fertilizers (avoid the over fertilizing (for example, saltpeter fertilizer))**
- 23. Have stopped burning the plant remaining (the remaining of cereal after the harvesting), leaves and other organic wastes remained after the agricultural works (plant remaining and others)**
- 24. Have prepared compost and have used it as an organic fertilizer**
- 25. Have used organic fertilizers applying the right technology of manure treatment, composting, biohumus, green fertilizing (sideration), bacterial substances and others**
- 26. Other (specify)**
- 27. None of the above**

CARD 3

- 1. Proper preparation of irrigated land (collecting stones, adjusting slopes, weeding etc.)**
- 2. Modification of furrow sizes (length, width, depth and inter-furrow area)**
- 3. Ditch covering with plastic cover**
- 4. Siphons**
- 5. Dams (metal or plastic)**
- 6. Moveable gated pipe**
- 7. Spiles**
- 8. Hydrants**
- 9. Sprinkler irrigation**
- 10. Micro sprinkler irrigation**
- 11. Drip irrigation**
- 12. Soil moisture meter (Watermark, Tensiometer etc.)**
- 13. ET gauge data**
- 14. Water measurement at farm gate (through YAGYUS or V-notch weir)**
- 15. Have taken my copy of water supply contract signed with WUA**
- 16. Presented order to the WUA about the cultivated crops**
- 17. Have updated the Annex to the water supply contract**
- 18. Have placed water order in a written form**
- 19. Other (specify)**

CARD 4

1. Sef international UCO
2. "AGBA LIZING" UCO
3. "AGROLIZING LIZING CREDIT ORGANIZATION" Ltd
4. "Izmirlyan-Eurasia" UCO
5. "AREGAK" UCO
6. "Finka" UCO
7. "Nor Horizon" UCO
8. "NORVIK" UCO
9. "Malatia UCO" LTD
10. "GARNI INVEST" UCO
11. "Ecumenic Church Credit Foundation" UCO
12. "GFC General financial and credit company " UCO
13. "Farm Credit Armenia" UCO
14. "Card Agro Credit" UCO
15. "Aniv" UCO
16. "Anelik Bank"
17. "AREXIMBANK"
18. "ArdshinInvestBank"
19. "ArtsackBank"
20. "Armenian Development Bank"
21. "HSBC-Armenia"
22. "Byblos Bank Armenia"
23. "InecoBank"
24. "ConverseBank"
25. "AGBA-CREDIT AGRICOL BANK"
26. "ARMECONOMBANK"
27. "ARMBISNESSBANK"
28. "VTB-Armenia Bank"
29. "AraratBank"
30. "AMERIABANK"
31. "MELLAT BANK"
32. "PrometeyBank"
33. "UNIBANK"
34. "PRO CREDIT BANK"
35. Other (specify)