

FARMING PRACTICES SURVEY (FPS): 2007-2008
MCC-ARMENIA

USER'S GUIDE FOR PUBLIC DATASET
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SURVEY OVERVIEW

The overarching goal of the MCA-Armenia program is to reduce rural poverty through better economic performance in the agricultural sector. The objective of the program's Water-to-Market Activity (WtM) is to provide training, technical assistance, access to credit and essential equipment under the MCC-funded Infrastructure Activity.

The primary purpose of the Farming Practices Survey (FPS) is to collect data for an impact evaluation of on-farm water management and high-value agriculture training, which is the primary component of WtM. A total of three (3) surveys are to be conducted under the FPS during the following periods: 2007-2008, 2008-2009, and 2010-2011. These data pertain to the baseline survey of 2007-2008.

The baseline FPS collected data on 4,854 farming households in 223 villages across 10 marzes in Armenia (excluding Yerevan). The fieldwork was conducted from November 15, 2007 to February 21, 2008.

The FPS standardized questionnaire was designed based on domains obtained by specialists from MCA-Armenia, MCC and Mathematica, with close review of previous related survey questionnaires. The questionnaire contained 8 blocks of questions to measure the items (topical domains) required by the client (such as characteristics of the household, land and livestock, crops production, water use, farming expenditures, participation in trainings, agriculture equipment consumption and monetary income). The FPS pre-test—including the sample pre-test—was conducted from October 10-11, 2007.

Mathematica selected the villages to include for the FPS. The survey was fielded by a consortium led by AREG, an Armenian survey organization. AREG's fieldstaff worked with village mayors to develop lists of farmers to interview within each village, targeting households actively engaged in farming. The sample covered approximately 3,000 farmers from 120 village clusters in the treatment Group and 2,000 farmers from 80 village clusters in the control group; both treatment and control groups will be surveyed by AREG for each round of the survey.

BASIC INFORMATION

Variable	Label	Measurement Level	Missing Value Code(s)
Marz	Marz (Region) Code	Nominal	None

Value	Label
Marz	1 Tavush region
	2 Syunik region
	3 Lori region
	4 Aragatsotn region
	5 Vayots Dzor region
	6 Shirak region
	7 Gegharqunik region
	8 Armavir region
	9 Kotayq region
	10 Ararat region

SECTION A. LAND AND LIVESTOCK

Variable	Label	Measurement Level	Missing Value Code(s)
A1	How many years have you been farming (excluding years in which only the kitchen plot was cultivated)?	Ordinal	none missing

Value	Label	
A1	1	Less than 1
	2	1 - 5
	3	6 - 10
	4	11 - 16
	5	More than 17
	6	Have only kitchen plot

Value and label added after field work

Variable	Label	Measurement Level	Missing Value Code(s)
A2_1	What is the total area of the land currently cultivated by your household? Own cultivated land (sq.m.)	Scale	(blank)

Only 1 missing value is present for this variable.

Value	Label	
A2_1	0	Don't have own land

Value and label added after field work

Variable	Label	Measurement Level	Missing Value Code(s)
A2_2	What is the total area of the land currently cultivated by your household? Rented/other cultivated land (sq.m.)	Scale	(blank)

Only 1 missing value is present for this variable.

Value	Label	
A2_2	0	Don't have rented land

Value and label added after field work

Variable	Label	Measurement Level	Missing Value Code(s)
A3	Do you have a kitchen plot?	Nominal	none missing

Value	Label	
A3	1	Yes
	2	No

Variable	Label	Measurement Level	Missing Value Code(s)
A4	How big is the plot? (sq.m)	Scale	(blank)

Blanks for these variables denote cases in which the respondent did not have a kitchen plot.

Variable	Label	Measurement Level	Missing Value Code(s)
A5	How do you water your kitchen plot?	Nominal	(blank)

Blanks for these variables denote cases in which the respondent did not have a kitchen plot.

Value	Label	
A5	1	Mainly well or drinking water
	2	Mainly irrigation water
	3	Mainly rain water
	4	Don't water

Value and label added after field work

Variable	Label	Measurement Level	Missing Value Code(s)
A6	Do you have livestock?	Nominal	(none)

Value	Label
A6	1 Yes
	2 No

Variable	Label	Measurement Level	Missing Value Code(s)
A7_1	Number of cows	Scale	(blank)
A7_2	Number of pigs	Scale	(blank)
A7_3	Number of sheep and goats	Scale	(blank)

Blanks for these variables denote cases in which the respondent did not own livestock.

Value	Label
A7_[1~3]	0 Don't have

Value and label added after field work

A value of 0 is identical to a blank value for these three variables.

SECTION B. CROPS GROWN DURING THE LAST AGRICULTURAL SEASON

Variable	Label	Measurement Level	Missing Value Code(s)
Bq[1~10]_1	Crop production and utilization in the field: Crop grown	Nominal	(blank)

Value	Label	Value	Label
Bq[1~10]_1	1	25	Cucumber
	2	26	Eggplant
	3	27	Pepper
	4	28	Cabbage
	5	29	Carrot
	6	30	Squash
	7	31	Onion
	8	32	Garlic
	9	33	Potato
	10	34	Red beet
	11	35	Sunflower
	12	36	Haricot
	13	37	Tobacco
	14	38	Greens (coriander, basil, tarragon, etc.)
	15	39	Grass (natural)
	16	40	Gamma or other special feed
	17	41	Other fruits
	18	42	Other vegetables
	19	43	Sorgo (broom producing)
	20	44	Emmer wheat
	21	45	Flowers
	22	46	Planting stock (trees)
	23	66	N/A
	24		

Values and labels added after field

Variable	Label	Measurement Level	Missing Value Code(s)
Bq[1~10]_11	Crop production and utilization in the field: Place crop is grown	Nominal	(blank)

Value	Label	
Bq[1~10]_11	1	In the field
	2	In the kitchen plot
	3	Both

Variable	Label	Measurement Level	Missing Value Code(s)
Bq[1~10]_2	How much was cultivated? (sq.m.)	Scale	(blank)

Variable	Label	Measurement Level	Missing Value Code(s)
Bq[1~10]_3	How much was cultivated? (number of trees)	Scale	(blank)

Variable	Label	Measurement Level	Missing Value Code(s)
Bq[1~10]_4	Total amount harvested in the last season	Scale	(blank)

Variable	Label	Measurement Level	Missing Value Code(s)
Bq[1~9]_41	Total amount harvested in the last season (in bunches or pieces)	Scale	(blank)

Variable	Label	Measurement Level	Missing Value Code(s)
Bq[1~10]_5	How much was sold? (tons)	Scale	(blank)

Variable	Label	Measurement Level	Missing Value Code(s)
Bq1[1~9]_51	How much was sold? / (For items measured in bunches or pieces)	Scale	(blank)

Data entry mask contains 10 fields, but after entering the data 1 unused field was deleted.

Variable	Label	Measurement Level	Missing Value Code(s)
Bq[1~10]_6	How much was sold? (Armenian Drams)	Scale	(blank)

Variable	Label	Measurement Level	Missing Value Code(s)
Bq[1~10]_7	How much was bartered?(tons)	Scale	(blank)

Variable	Label	Measurement Level	Missing Value Code(s)
B2_[1~9]	During the past agricultural season, did you do any of the following practices?	Scale	(blank)

Value	Label	
B2_[1~9]	1	Used non-organic fertilizers
	2	Used pesticides or other plant protection material
	3	Bought high quality seeds
	4	Transplanted from a seed bed to the field or from a nursery
	5	Changed time of seeding
	6	Produced two or more crops per year
	7	Introduced new crops, new trees...
	8	Introduced new varieties of crops
	9	Changed the way you cultivate or weed
	10	Used "organic" practices
	11	Used plastic greenhouse or plastic tunnel during crop prod.
	12	Planted dwarf root stock or trees
	13	Pruned (fruit or nut trees)
	14	No

Variable	Label	Measurement Level	Missing Value Code(s)
B3	During recent agricultural season, did you grow different crops from the previous year?	Nominal	none missing

Value	Label	
B3	1	Yes
	2	No

Variable	Label	Measurement Level	Missing Value Code(s)
B4	What is the main reason you changed your cropping pattern?	Nominal	(blank)

Value	Label	
B4	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	Other

SECTION C. WATER USE

Variable	Label	Measurement Level	Missing Value Code(s)
C1_1	How much of your land did you water through the following ways? Irrigation water (sq. m.)	Scale	(blank)
C1_2	How much of your land did you water through the following ways? Well or other drinking water (sq. m.)	Scale	(blank)
C1_3	How much of your land did you water through the following ways? Exclusively natural sources (sq. m.)	Scale	(blank)
C1_4	How much of your land did you water through the following ways? Irrigation water and well (sq. m.)	Scale	(blank)
C1_5	How much of your land did you water through the following ways? Irrigation and natural sources (sq. m.)	Scale	(blank)

Blanks can be interpreted as no land watered through the specified way.

Variable	Label	Measurement Level	Missing Value Code(s)
C2	Do you have a personal tank or reservoir that you use to water crops?	Nominal	none missing

Value	Label
C2	1 Yes
	2 No

Variable	Label	Measurement Level	Missing Value Code(s)
C3	Do you have a pump that you use to pump water?	Nominal	none missing

Value	Label
C3	1 Yes
	2 No

Variable	Label	Measurement Level	Missing Value Code(s)
C4_1	What irrigation practices did you use during the last agricultural season?	Nominal	(blank)
C4_2	What irrigation practices did you use during the last agricultural season?	Nominal	(blank)

Value	Label	
C4_[1~2]	1	Verifying/modifying furrow row spacing
	2	Scientific scheduling of when to irrigate
	3	Water meters (water pressure measuring devices)
	4	Non-pressure/pipe irrigation
	5	Pressure irrigation
	6	None of mentioned
	21	Soil moisture sensors (Watermark)
	22	Tensiometers
	23	ET gauge
	41	Plastic or metal dams
	42	Siphon tubes
	43	Short pipes with valves
	44	Gated pipes
	45	Other
	51	Undertree high pressure spray
	52	Drip irrigation
53	Micro sprinklers	

Variable	Label	Measurement Level	Missing Value Code(s)
C5	Did any of these practices help you save water?	Nominal	(blank)

Value	Label	
C5	1	Yes
	2	No

Variable	Label	Measurement Level	Missing Value Code(s)
C6	Did any of these practices help you save labor?	Nominal	(blank)

Value	Label	
C6	1	Yes
	2	No

Variable	Label	Measurement Level	Missing Value Code(s)
C7	Did you incorporate any agricultural practices that changed the way you use fertilizers or pesticides?	Nominal	none missing

Value	Label	
C7	1	Yes
	2	No

SECTION D. FARMING EXPENDITURES

Variable	Label	Measurement Level	Missing Value Code(s)
D1_11mon	How much was spent on all kinds of fertilizers and pesticides during the last season? (Armenian Drams)	Scale	(blank)
D1_12bart	How much was spent on all kinds of fertilizers and pesticides during the last season? (Barter in Armenian Drams)	Scale	(blank)

Variable	Label	Measurement Level	Missing Value Code(s)
D1_21mon	How much was spent on irrigation during the last season? (Armenian Drams)	Scale	(blank)
D1_22bart	How much was spent on irrigation during the last season? (Barter in Armenian Drams)	Scale	none missing

Variable	Label	Measurement Level	Missing Value Code(s)
D1_31mon	How much was spent on hired labor and rented equipment or tools during the last season? (Armenian Drams)	Scale	(blank)
D1_32bart	How much was spent on hired labor and rented equipment or tools during the last season? (Barter in Armenian Drams)	Scale	none missing

Variable	Label	Measurement Level	Missing Value Code(s)
D1_41mon	How much was spent on taxes and duties during the last season? (Armenian Drams)	Scale	none missing
D1_42bart	How much was spent on taxes and duties during the last season? (Barter in Armenian Drams)	Scale	none missing

Variable	Label	Measurement Level	Missing Value Code(s)
D1_51mon	How much was spent on other major expenses during the last season? (Armenian Drams)	Scale	(blank)
D1_52bart	How much was spent on other major expenses during the last season? (Barter in Armenian Drams)	Scale	none missing

SECTION E. TRAINING

Variable	Label	Measurement Level	Missing Value Code(s)
E1	During the past year, was any farming or irrigation training offered in your community or nearby communities?	Nominal	(blank)

	Value	Label
E1	1	Yes
	2	No

Variable	Label	Measurement Level	Missing Value Code(s)
E2	Did you attend any of the trainings?	Nominal	(blank)

This question was only asked of those reporting trainings in E1.

	Value	Label
E2	1	Yes
	2	No

Variable	Label	Measurement Level	Missing Value Code(s)
E3_[1~4]	What kind of training was it?	Nominal	(blank)

This question was only asked of those reporting attending trainings in E2.

	Value	Label
E3_[1~4]	1	Classroom training
	2	Farm demonstration training
	3	Video or computer in the classroom
	4	Exchange of experience
	5	Some other kind of training

Variable	Label	Measurement Level	Missing Value Code(s)
E4	Did you receive a certificate at the end of training?	Nominal	(blank)

This question was only asked of those reporting attending trainings in E2.

	Value	Label
E4	1	Yes
	2	No

SECTION F. AGRICULTURE EQUIPMENT

Variable	Label	Measurement Level	Missing Value Code(s)
F1_1	Do you currently own or rent Trucks and Tractors	Nominal	none missing
F1_2	Do you currently own or rent a Combine	Nominal	(blank)
F1_3	Do you currently own or rent a Seed planter	Nominal	none missing
F1_4	Do you currently own or rent a Sprayer	Nominal	none missing
F1_5	Do you currently own or rent an Artesian well or tank	Nominal	none missing

Value	Label
F1_[1~5]	1 Own
	2 Rent
	55 I don't have it

Variable	Label	Measurement Level	Missing Value Code(s)
F2	Did you take credit during the last season?	Nominal	none missing

Value	Label
F2	1 Yes
	2 No

Variable	Label	Measurement Level	Missing Value Code(s)
F2_1	Did you take credit during the last season? If "yes" amount in Armenian Drams.	Scale	(blank)

This question was only asked of those reporting taking credit in F2.

Variable	Label	Measurement Level	Missing Value Code(s)
F3	From whom did you receive the credit?	Nominal	(blank)

This question was only asked of those reporting taking credit in F2.

Value	Label
F3	1 Bank
	2 State guaranteed project
	3 International organization
	4 Parents
	5 Friends or others
	6 Other

**SECTION G. CONSUMPTION AND MONETARY INCOME OF
HOUSHOLD MEMBERS**

Variable	Label	Measurement Level	Missing Value Code(s)
G1_1	How much was spent by your family during the last month? Food (Armenian Drams)	Scale	(blank)
G1_2	How much was spent by your family during the last month? Healthcare costs (Armenian Drams)	Scale	(blank)
G1_3	How much was spent by your family during the last month? Housing products (Armenian Drams)	Scale	(blank)
G1_4	How much was spent by your family during the last month? Public utilities (Armenian Drams)	Scale	(blank)
G1_5	How much was spent by your family during the last month? Transport (Armenian Drams)	Scale	(blank)
G1_6	How much was spent by your family during the last month? Other (Armenian Drams)	Scale	(blank)

Variable	Label	Measurement Level	Missing Value Code(s)
G2_1	Approximately how much monetary income was received by your family members in the last month?: Pension (Armenian Drams)	Scale	(blank)
G2_2	Approximately how much monetary income was received by your family members in the last month?: Remittances from HH absent members (Armenian Drams)	Scale	(blank)
G2_3	Approximately how much monetary income was received by your family members in the last month?: Other benefits (Armenian Drams)	Scale	(blank)

Less than 6 missing values are present for each of these 3 variables.

SECTION H. LIST OF HOUSEHOLD MEMBERS

Variable	Label	Measurement Level	Missing Value Code(s)
H[1~10]_1	Relationship to the head of household	Nominal	(blank)

Value	Label
H[1~10]_1	1 Head
	2 Spouse
	3 Son/daughter
	4 Son in law/ daughter in law
	5 Grandchild
	6 Father/mother of head / spouse
	7 Other relatives of the head
	8 Persons that do not have any relationship to the head

The first nine fields (H1_1- H1_9) refer to respondent.

Variable	Label	Measurement Level	Missing Value Code(s)
H[1~10]_2	Gender	Nominal	(blank)

Value	Label
H[1~10]_2	1 Male
	2 Female

Variable	Label	Measurement Level	Missing Value Code(s)
H[1~10]_3	Age	Scale	(blank)

Variable	Label	Measurement Level	Missing Value Code(s)
H[1~10]_4	Absent from household?	Nominal	(blank)

Value	Label
H[1~10]_4	1 Absent

Variable	Label	Measurement Level	Missing Value Code(s)
H[1~10]_5	Did household member actively work in agriculture as his/her main activity during last harvest?	Nominal	(blank)

Value	Label
H[1~10]_5	1 Yes
	2 No

Variable	Label	Measurement Level	Missing Value Code(s)
H[1~10]_6	Did household member have any paid work during the last month?	Nominal	(blank)

Value	Label
H[1~10]_6	1 Yes
	2 No

Variable	Label	Measurement Level	Missing Value Code(s)
H[1~10]_7	How much was household member's salary for the mentioned job in Armenian Drams?	Scale	(blank)

This question was only asked of those reporting paid work in H[1~10]_6.

Variable	Label	Measurement Level	Missing Value Code(s)
H[1~10]_8	Did household member receive any in-kind (non financial) payment?	Nominal	(blank)

This question was only asked of those reporting paid work in H[1~10]_6.

Value	Label
H[1~10]_8	1 Yes
	2 No

Variable	Label	Measurement Level	Missing Value Code(s)
H[1~10]_9	Household member's highest level of education completed?	Ordinal	(blank)

Value	Label
H[1~10]_9	1 Uneducated
	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



APPENDIX A

SURVEY INSTRUMENT

YEREVAN 2008

FARMING PRACTICES SURVEY

Marz Code	Cluster/settlement code	Respondent current number	Interviewer Code	Questionnaire is valid Coordinator's 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 survey data will be used only in a summarized form and will greatly contribute to the elaboration of projects directed to the agricultural development in Armenia. Your reliable answers are very important for us.

Name of respondent

First Name, Middle Name, Last Name

Contacts of the respondent (telephone) _____

Start time _____

End time _____

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. less than 1
2. 1 - 5
3. 6 – 10
4. 11 – 16
5. More than 17

A2. What is the total area of the land currently cultivated by your household (not including kitchen plot)?

Type of land	Area in sq.m
1. Own cultivated land	
2. Rented/other cultivated land	

A3. Do you have a kitchen plot?

1. Yes
2. No (then => A6)

A4. How big is the plot?

_____ sq.m

A5. How do you water kitchen plot?

1. Mainly well or drinking water
2. Mainly irrigation water
3. Mainly rain water
4. Other (specify)_____

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
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).

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

66. N/A

N	Item (Input Code using the Card 1)	1. In the field 2. In the kitchen plot 3. Both	How much was cultivated?		Total amount harvested in the last season	Of which:		
			<i>If only several trees were cultivated, ask how many trees, writing down the number.</i>			How much was sold?		How much was bartered
			sq. m.	number of trees		t	t	AMD
		1	2	3	4	5	6	7
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

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

1.	
2.	
3.	
4.	
5.	
6.	
7.	

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

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

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. Other (specify)_____

C. WATER USE

C1. How much of your land did you water through the following ways (not including your kitchen plot)?

1. Irrigation water (pipeline/canal)	sq. m
2. Well or other drinking water	sq. m
3. Exclusively natural sources, rivers/ rain water	sq. m
4. Irrigation water and well or other drinking water	sq. m
5. Irrigation and natural sources, rivers/rain water	sq. m

C2. Do you have a personal tank or reservoir that you use to water crops?

1. Yes
2. No

C3. Do you have a pump that you use to pump water?

1. Yes
2. No

C4. What irrigation practices did you use during the last agricultural season?

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

6. None of mentioned (then=>C7)

C5. Did any of these practices help you save water?

1. Yes
2. No

C6. Did any of these practices help you save labor?

1. Yes
2. No

C7. 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 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	Other major expenses (specify)		

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)
99. Don't know (then =>F1)

E2. Did you 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. Classroom training
2. Farm demonstration training
3. Video or computer in the classroom
4. Exchange of experience
5. Some other kind of training (describe)_____

E4. Did you 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
		1	2
1	Trucks and Tractors		
2	Combine		
3	Seed planter		
4	Sprayer		
5	Artesian well or tank		

55. I don't have it

F2. Did you take credit during the last season?

1. Yes, amount (AMD) _____
2. No (then =>G1)

F3. From whom did you receive the credit?

1. Bank
2. State guaranteed project
3. International organization
4. Parents
5. Friends or others
6. Other (specify) _____

G. CONSUMPTION AND MONETARY INCOME OF HH MEMBERS

G1. How much is spent by your family for the following purposes during the last month?

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

G2. How much is the generalized monetary income of your family members from the following sources in last month?

<i>Income</i>	<i>AMD</i>
1. Pension	
2. Remittances from HH absent members (abroad or other RA citizens)	
3. Other benefits (social)	

H1. 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 head of the household, i.e. the person adopting primary decisions, 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 to 9 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 1.head 2.spouse 3.son/daughter 4.son in law/ daughter in law 5.grandchild 6.father/mother of head / spouse 7.other relatives of the head 8. persons that do not have any relationship to the head	Gender 1. male 2. female	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 the last harvest, which people in the household were actively working in agriculture as their main activity? 1. Yes 2. No	Did any of your HH members have any paid work during the last month 1. Yes 2. No	How much was HH members' salary for the mentioned job in AMD?	Do the HH members receive any in-kind (non financial) payment? 1. Yes 2. No	What is the level of education completed? (from 16 years of age) 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	7	8	9
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

Thank you for cooperation.

CARD 1

1. Wheat
2. Barley
3. Maize
4. Apple
5. Grape
6. Peach
7. Appricot
8. Pear
9. Prunes
10. Plum
11. Fig
12. Pomegranate
13. Sweet Cherry
14. Cherry
15. Cornel
16. Quince
17. Water melon
18. Melon
19. Pumpkin
20. Lemon
21. Malta orange
22. Walnut, hazelnut
23. Strawberry
24. Tomato
25. Cucumber
26. Eggplant
27. Pepper
28. Cabbage
29. Carrot
30. Squash
31. Onion
32. Garlic
33. Potato
34. Red beet
35. Sunflower
36. Haricot
37. Tobacco
38. Greens (coriander, basil, parsley, tarragon, etc.)
39. Grass (natural)
40. Gramma or other special feed
41. Other fruits
42. Other vegetables

Card 2

1. Used non-organic fertilizers
2. Used pesticides or other plant protection material
3. Bought high quality seeds
4. Transplanted from a seed bed to the field or from a nursery to a field
5. Changed time of seeding
6. Produced two or more crops per year
7. Introduced new crops, new trees, or an orchard you had not grown last year
8. Introduced new varieties of crops
9. Changed the way you cultivate or weed (timing, frequency, technique)
10. Used "organic" practices
11. Used plastic greenhouse or plastic tunnel during crop production
12. Planted dwarf root stock or trees
13. Pruned (fruit or nut trees)
14. No

CARD 3

- 1. Verifying/modifying furrow row spacing**
- 2. Scientific scheduling of when to irrigate, such as**
 - 2.1. Soil moisture sensors (Watermark)
 - 2.2. Tensiometers
 - 2.3. ET gauge
- 3. Water meters (water pressure measuring devices)**
- 4. Non-pressure/ pipe irrigation**
 - 4.1. Plastic or metal dams
 - 4.2. Siphon tubes
 - 4.3. Short pipes with valves
 - 4.4. Gated pipes
 - 4.5. Other (specify)
- 5. Pressure irrigation**
 - 5.1. Undertree high pressure spray
 - 5.2. Drip irrigation
 - 5.3. Micro sprinklers