

# REPORT

FINAL REPORT

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## Supplement to Evaluation of the Transition to High- Value Agriculture Project in Moldova: Baseline Findings from the 2013– 2014 Farm Operator Survey

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October 23, 2015

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## **APPENDIX D**

### **SMALL AND MEDIUM FARM QUESTIONNAIRE**

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**MOLDOVA 2013/2014 FARM OPERATOR SURVEY**

		FOS 2013/2014 sample		FOS interview
		1. Name / text	2. Code	3. Name / text
		Complete these columns before the interview based on the sampling data		Based on the interview
<b>FARM LEVEL INFORMATION</b>				
X. 1	Farm area	____. ____ ha		____. ____ ha
X. 2	Farm operator			
X. 3	Respondent			
X. 4	CIS			
X. 5	Sample ID			
<b>PLOT LEVEL INFORMATION</b>				
X. 6	Cadastral code			
X. 7	Plot area	____. ____ ha		____. ____ ha
X. 8	Plot owner			

(1) *Include precise information on farm area, in decimals*

(2) *If total farm area based on interview (X.1.3) is <100 ha, continue with Small and Medium Farm Questionnaire; if ≥100 ha, continue with Large Farm Questionnaire.*

**X. 9.** Before beginning the survey, I would like to ask you a question to determine if you are eligible to complete the survey. *[Show the respondent the cadastral code and point out the plot on a map.]* During the 2013 agricultural season, did your farm operate this plot?

Yes, my farm operation cultivated crops on this plot	1	“You are eligible to complete the survey.” <i>Continue</i>
Yes, my farm operation had control of this plot, even though it was uncultivated	2	“You are eligible to complete the survey.” <i>Continue</i>
No, my farm operation did not have control over what happened on this plot	3	<i>Code interview result as “farm/HH is not eligible” in Q4-Q6; ASK FIELD SUPERVISOR TO PROVIDE REPLACEMENT</i>
Refused	89	<i>Code interview result as “refused” in Q4-Q6; ASK FIELD SUPERVISOR TO PROVIDE REPLACEMENT</i>
Don’t know	99	<i>Code interview result as “other” in Q4-Q6; ASK FIELD SUPERVISOR TO PROVIDE REPLACEMENT</i>

	Name	Code
<b>Q 1.</b> Region (in capitals)		
<b>Q 2.</b> District/rayon (in capitals)		
<b>Q 3.</b> Settlement/village (in capitals)		

**MOLDOVA SMALL- AND MEDIUM-SIZED FARM OPERATOR SURVEY (2013/2014)****Consent Statement:**

Hello, my name is **(First name, last name):**

I represent the Agribusiness Development Institute, which is fielding the Farm Operator Survey in Moldova. The study is funded by the Millennium Challenge Corporation, an agency of the U.S. Government, and is being guided by Mathematica Policy Research, a US-based organization.

You have been selected for an interview based on the fact that you farm a land plot located in an “Apele Moldovei” Central Irrigation System Area or adjacent to this area. Your participation is very important to understand the situation of farmers in your region. The information that we will collect will serve to measure the impact of rehabilitation of irrigation infrastructure in Moldova. Your reliable answers are very important for us.

The interview will take approximately two hours.

All the information we obtain will remain strictly confidential. This information will not be released in any way that would allow identification of yourself, your household, or your answers. This information will be used for evaluation purposes only, and all identifiable information such as names or contact information will be removed.

Your participation is voluntary and you may choose not to answer any or all questions for any reason.

You may contact ADI’s Regional Coordinator for this survey, at a number I can provide, if you have questions, concerns, or complaints about the study or your rights as a participant.

Do you have any questions before we begin?



INTERVIEWER VISITS				
		Q 4. Visit 1	Q 5. Visit 2	Q 6. Visit 3 – final
1. Date [DD] [MM] [YYYY]		[_] [_] [ _ _ ]	[_] [_] [ _ _ ]	[_] [_] [ _ _ ]
2. Interviewer (in capitals)		name: _____ ID: _____	name: _____ ID: _____	name: _____ ID: _____
3. Interview time	Start [HH] [MM]	[_] [ _ ]	[_] [ _ ]	[_] [ _ ]
	End [HH] [MM]	[_] [ _ ]	[_] [ _ ]	[_] [ _ ]
4. Visit result <i>see result codes below</i>		[ _ ]	[ _ ]	[ _ ]
5. Appointment for the next visit	Date [DD] [MM] [YYYY]	[_] [ _ ] [ _ _ ]	[_] [ _ ] [ _ _ ]	
	Time [HH] [MM]	[_] [ _ ]	[_] [ _ ]	
	Location	_____	_____	

***DON'T FILL THE TABLE! Use codes to fill in 4. visit result above.***

*Interview result codes:*

Interview completed	1	
No one home	2	<i>Make next appointment</i>
Farmer not available	3	<i>Make next appointment</i>
Incomplete	4	<i>Make next appointment</i>
Refused	5	
Farm/HH is not eligible	6	
Farm/HH not located	7	
Other (Specify) _____		

**A. HOUSEHOLD ROSTER**

I would like to ask you some questions about all the members of your household, both present and absent. When I say “your household” I mean people who lived in your household for 3 or more months out of the past year and contributed to or shared the same budget. I would like to ask questions about you, your spouse, your children, and other members of the household.

Household member roster code	Household members	A1. Member of the HH [Mark all that apply]	A2. Respondent [One answer]	A3. Household head [One answer]	A4. Primary farm operator [Mark all that apply]	A5. Is this person male or female?  1. Male 2. Female 89. Refused 99. DNK	A6. Age of person 899. Refused 999. DNK	A7. What was (his/her) primary residence during the 2013 agricultural season?  1. In village/on farm 2. Other village 3. In raion center 4. Chisinau/Balti/Tiraspol/Bender 5. Out of the country 89. Refused 99. DNK
Complete columns for ALL household members marked in A1.								
1	Husband	1	1	1	1	1		
2	Wife	2	2	2	2	2		
3	Child 1	3	3	3	3			
4	Child 2	4	4	4	4			
5	Child 3	5	5	5	5			
6	Child 4	6	6	6	6			
7	Child 5	7	7	7	7			
8	Son in law/daughter in law	8	8	8	8			
9	Son in law/daughter in law	9	9	9	9			
10	Grandchild	10	10	10	10			
11	Grandchild	11	11	11	11			
12	Grandchild	12	12	12	12			
13	Grandparent	13	13	13	13			
14	Grandparent	14	14	14	14			
15	Other _ _ _ _ _	15	15	15	15			
16	Other _ _ _ _ _	16	16	16	16			
17	Other _ _ _ _ _	17	17	17	17			
	Don't know			99	99			

**B. HOUSEHOLD, FARM, AND COMMUNITY CHARACTERISTICS**

Use the following codes for B1:

1 = Only me	88 = Not applicable
2 = Only my spouse	89 = Refused
3 = Both me and my spouse	99 = Don't know
4 = Other family member	
5 = All family members equally	

**B 1.** I'd like to ask you about your farm. Please tell me: *[Read out the list of codes; enter code in each row]*

B1.1. Who in your household decided this season (2013) where and what crops to cultivate?	
B1.2. Who in your household decided this season (2013) when and where to sell crops cultivated?	
B1.3. Who in your household decided this season (2013) how much irrigation water to use?	

**B 2.** In the 2013 agricultural season, how many person-days did household members work on your farm? *[Estimate person-days]*

	Men	Women
Person-days	_____ person-days	_____ person-days
Refused	-89	-89
Don't know	-99	-99

**B 3.** Excluding household members, in the 2013 agricultural season, how many paid full-time laborers worked on your farm? *[Estimate persons]*

	Men	Women
Persons	_____ persons	_____ persons
Refused	-89	-89
Don't know	-99	-99

**B 4.** Excluding household members, in the 2013 agricultural season, how many paid part-time laborers worked on your farm? *[Estimate person-days]*

	Men	Women
Person-days	_____ person-days	_____ person-days
Refused	-89	-89
Don't know	-99	-99

**B 5.** Which of the following assets do you or anyone in your household own? *[Read out the list; mark all that apply; if household owns asset jointly with another household, mark as owned]*

Farm buildings	1
Greenhouse	2
Tractor	3
Irrigation equipment	4
None	5

**B 6.** Did your household/farm rent space in an operational cold storage facility for storing your crops during the 2013 season? *[One answer]*

Yes	1
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No	2
Refused	89
Don't know	99

**B 7.** Did your household/farm own or was it a shareholder of an operational cold storage facility for storing your crops during the 2013 season? *[One answer]*

Yes	1	<i>Skip to B9</i>
No	2	<i>Continue</i>
Refused	89	
Don't know	99	

**B 8.** How close is the nearest operational cold storage facility to your farm? *[One answer]*

Less than 1 km	1
At least 1 km but less than 5 km	2
At least 5 km but less than 10 km	3
At least 10 km but less than 15 km	4
More than 15 km	5
Refused	89
Don't know	99

**B 9.** Now I would like to ask you some questions regarding your current membership in **producer / agricultural organizations**.

<b>B9.1. Are you a member of any producer / agricultural organizations? <i>[One answer]</i></b>		
Yes, and it is/they are functional	1	<i>Continue</i>
Yes, but it is/they are not functional	2	<i>Skip to B10</i>
No	3	
Refused	89	
Don't know	99	
<b>B9.2. Do you have a leadership position in any producer / agricultural organizations? <i>[One answer]</i></b>		
Yes	1	
No	2	
Refused	89	
Don't know	99	
<b>B9.3. How much input do you have in making decisions in producer / agricultural organizations to which you belong? <i>[One answer]</i></b>		
No input	1	
Input into some decisions	2	
Input into most decisions	3	
Refused	89	
Don't know	99	

**B 10.** Now I would like to ask you some questions regarding your current membership in any types of **cooperatives related to production, business, and marketing of agricultural products.**

<b>B10.1. Are you a member of any cooperatives? [One answer]</b>		
Yes, and it is/they are functional	1	<i>Continue</i>
Yes, but it is/they are not functional	2	<i>Skip to B11</i>
No	3	
Refused	89	
Don't know	99	
<b>B10.2. Do you have a leadership position in any cooperatives? [One answer]</b>		
Yes	1	
No	2	
Refused	89	
Don't know	99	
<b>B10.3. How much input do you have in making decisions in cooperatives to which you belong? [One answer]</b>		
No input	1	
Input into some decisions	2	
Input into most decisions	3	
Refused	89	
Don't know	99	

**B 11.** Now I would like to ask you some questions regarding your current membership in **savings and credit associations.**

<b>B11.1. Are you a member of any savings and credit associations? [One answer]</b>		
Yes, and it is/they are functional	1	<i>Continue</i>
Yes, but it is/they are not functional	2	<i>Skip to Section C</i>
No	3	
Refused	89	
Don't know	99	
<b>B11.2. Do you have a leadership position in any savings and credit associations? [One answer]</b>		
Yes	1	
No	2	
Refused	89	
Don't know	99	
<b>B11.3. How much input do you have in making decisions in savings and credit associations to which you belong? [One answer]</b>		
No input	1	
Input into some decisions	2	
Input into most decisions	3	
Refused	89	
Don't know	99	

**C. FARM PRODUCTION, REVENUE, AND COSTS**

**C 1.** Now I'd like to ask you some questions about livestock production and revenue during the 2013 agricultural season. How many animals / poultry did you have as of the end of October 2013? *[Enter number across each category; if no animals in a category, enter 0]*

**C 2.** During the 2013 agricultural season (**01 November 2012 – 31 October 2013**), how much did you receive from selling animals/poultry or selling animal/poultry production? *[Include live animals, meat, eggs, cheese, etc; enter Lei; if production was bartered, enter estimated value in Lei]*

**C 3.** During the 2013 agricultural season, what was the value of animal/poultry production that was consumed in your household? *[Include meat, eggs, etc.; estimate value in Lei]*

*Use the following codes: -89 = Refused; -99 = Don't know*

	C1. Number owned	C2. Revenue from sales in Lei	C3. Consumed in Household in Lei
Poultry			
Cow			
Sheep			
Goat			
Pig			
Bee (hive)			
Other			

**C 4.** What is the area of your garden plot? *[Enter Ares or ha]*

Garden plot area <i>[Enter Ares OR ha]</i>	_____ Ares
	_____ ha
Refused	-89
Don't know	-99

**C 5.** During the 2013 agricultural season, how much did you receive from selling production from your garden plot? *[Estimate in Lei]*

Sales from garden plot	_____ Lei
Refused	-89
Don't know	-99

**C 6.** During the 2013 agricultural season, what was the value of production from your garden plot that was consumed in your household? *[Estimate in Lei]*

Household consumption from garden plot	_____ Lei
Refused	-89
Don't know	-99

Now I'd like to ask you some questions about crop production and revenue in field plots (Art. 82 and Art. 11) and greenhouses during the 2013 agricultural season. I'm interested in learning separately about the land and crops that you operate in different areas. **[SHOW MAPS]**

**C 7. Before completing C8 to C19, show the respondent the map and find out in which of the areas his / her household operates land plots (other than the garden plot).** Please tell me, on which of these areas did your household/farm operate land during 2013 agricultural season? **[Mark all that apply; not all maps will have Area B designated]**

Operated land in Area A	1	<i>Complete C8 to C19 for LAND AND CULTIVATION IN AREA A</i>
Operated land in Area B	2	<i>Complete C8 to C19 for LAND AND CULTIVATION IN AREA B</i>
Operated land outside Area A and Area B	3	<i>Complete C8 to C19 for LAND AND CULTIVATION OUTSIDE AREA A AND AREA B</i>
Don't know	89	<i>Complete C8 to C19 in the first table - LAND AND CULTIVATION IN AREA A – but describe land and cultivation over all land, not just Area A</i>
Refused	99	

When answering these questions, please tell me about the 2013 agricultural season (**01 November 2012 – 31 October 2013**) only.

***[Interviewer: Ask for each area designated on the map: Area A, Area B, and the area that is neither Area A nor Area B. Note that the respondent should not include the garden plot]:***

**C 8.** C8.1. In the 2013 agricultural season, how much land in an open field, including uncultivated land, was available to your farm ***in this area***? ***[Insert ha]***

C8.2. How much land in covered areas, including uncultivated land, was available to your farm ***in this area***? ***[Insert ha]***

**C 9.** C9.1. How much land in an open field ***in this area*** was uncultivated?

C9.2. How much land in covered areas ***in this area*** was uncultivated?

**C 10.** 10.1. How much land in an open field ***in this area*** was cultivated?

C10.2. How much land in covered areas ***in this area*** was cultivated?

***[Interviewer: check that C9+C10=C8]***

**C 11.** Out of the land available ***in this area***, how much was (1) owned, (2) rented, and (3) used for free? ***[Insert ha]***

***[Interviewer: check that C11.1 + C11.2 + C11.3 = C8.1 + C8.2]***

**C 12.** ***[Ask if C11.2>0]*** How much did you pay for land rental ***in this area***? ***[If you pay in kind, estimate value in Lei]***

**C 13.** What was the volume of water you used to irrigate the land ***in this area***? ***[Enter m<sup>3</sup>; enter 0 if not irrigated]***

**C 14.** Now let me ask you some questions regarding the crops your farm / household cultivated in the 2013 agricultural season. Which crops did your farm cultivate ***in this area***? ***[Show crop card; mark all cultivated crops; if the crop is not shown, please enter it at the bottom of the table]***

**C 15.** ***[Ask for each crop marked in C14]*** For each cultivated crop, on how much land ***in this area*** did you cultivate this crop in an open field? ***[Enter ha]***

**C 16.** ***[Ask for each crop marked in C14]*** For each cultivated crop, on how much land ***in this area*** did you cultivate this crop in a covered area? ***[Enter ha]***

**C 17.** ***[Ask for each crop with C15>0 or C16>0]*** For each crop cultivated ***in this area***, how much was irrigated/watered? ***[Enter ha]***

**C 18.** ***[Ask for each crop marked in C14 that is grown in an orchard]*** Approximately how many trees did you cultivate ***in this area***?

**C 19.** ***[Ask for each crop marked in C14]*** For each cultivated crop, please tell me the volume harvested from all land ***in this area***, including open field area and covered area. ***[Enter amount in tons unless specified as “item” (crops #22 & #23)]***

***Use the following codes: -89 = Refused; -99 = Don't know***

**For C15, C16, and C17, indicate each area in ha: 10000 m<sup>2</sup> = 100 Ares = 1 ha**



**LAND AND CULTIVATION IN AREA A:** First, I'd like you to tell me about your land in Area A.  
*[Show respondent area designated on the map]*

		1. Open field area, ha	2. Covered area, ha
C8.A. Area available, including		_____ ha	_____ ha
C9.A. Area uncultivated		_____ ha	_____ ha
C10.A. Area cultivated		_____ ha	_____ ha
C11.A. How much is:	C11.1.A. Owned	_____ ha	
	C11.2.A. Rented	_____ ha	
	C11.3.A. Used for free	_____ ha	
C12.A. <i>If rented:</i> How much did you pay in total for land rental in Area A? <i>If you pay in kind, estimate value in Lei</i>		_____ Lei	
C13.A. What was the volume of water you used to irrigate the land in Area A? <i>Enter m<sup>3</sup>; enter 0 if not irrigated</i>		_____ m <sup>3</sup>	

Crop	C14.A. Cultivated crops	C15.A. Open field area, ha	C16.A. Covered area, ha	C17.A. Area irrigated, ha (of C15.A+C16.A)	C18.A. Number of trees	C19.A. Amount harvested, tons
1. Wheat	1					
2. Barley	2					
3. Oat	3					
4. Corn	4					
5. Sweet corn	5					
6. Pea	6					
7. Bean	7					
8. Fodder plant/forage	8					
9. Tobacco	9					
10. Sunflower	10					
11. Rapeseed	11					
12. Soybean	12					
13. Potato	13					
14. Cabbage	14					
15. Tomato	15					
16. Pepper	16					
17. Onion	17					
18. Cucumber	18					
19. Carrot	19					
20. Watermelon	20					
21. Seed	21					
22. Veg. seedling (item)	22					
23. Tree fruit seedling (item)	23					
24. Natural pastures/hayfields	24					
25. Apple	25					
26. Pear	26					
27. Sweet cherry	27					
28. Plum	28					
29. Peach	29					
30. Apricot	30					
31. Walnut	31					
32. Strawberry	32					
33. Table grape	33					
34. Technical grape	34					
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**LAND AND CULTIVATION IN AREA B:** Now, I'd like you to tell me about your land in Area B.  
*[Show respondent area designated on the map]*

		1. Open field area, ha	2. Covered area, ha
C8.B. Area available, including		_____ ha	_____ ha
C9.B. Area uncultivated		_____ ha	_____ ha
C10.B. Area cultivated		_____ ha	_____ ha
C11.B. How much is:	C11.1.B. Owned	_____ ha	
	C11.2.B. Rented	_____ ha	
	C11.3.B. Used for free	_____ ha	
C12.B. <i>If rented:</i> How much did you pay in total for land rental in Area B? <i>If you pay in kind, estimate value in Lei</i>		_____ Lei	
C13.B. What was the volume of water you used to irrigate the land in Area B? <i>Enter m<sup>3</sup>; enter 0 if not irrigated</i>		_____ m <sup>3</sup>	

Crop	C14.B. Cultivated crops	C15.B. Open field area, ha	C16.B. Covered area, ha	C17.B. Area irrigated, ha (of C15.B+C16.B)	C18.B. Number of trees	C19.B. Amount harvested, tons
1. Wheat	1					
2. Barley	2					
3. Oat	3					
4. Corn	4					
5. Sweet corn	5					
6. Pea	6					
7. Bean	7					
8. Fodder plant/forage	8					
9. Tobacco	9					
10. Sunflower	10					
11. Rapeseed	11					
12. Soybean	12					
13. Potato	13					
14. Cabbage	14					
15. Tomato	15					
16. Pepper	16					
17. Onion	17					
18. Cucumber	18					
19. Carrot	19					
20. Watermelon	20					
21. Seed	21					
22. Veg. seedling (item)	22					
23. Tree fruit seedling (item)	23					
24. Natural pastures/hayfields	24					
25. Apple	25					
26. Pear	26					
27. Sweet cherry	27					
28. Plum	28					
29. Peach	29					
30. Apricot	30					
31. Walnut	31					
32. Strawberry	32					
33. Table grape	33					
34. Technical grape	34					
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**LAND AND CULTIVATION OUTSIDE AREA A AND AREA B:** Finally, I'd like you to tell me about your land outside Areas A and B. [*Show respondent area designated on the map*]

		1. Open field area, ha	2. Covered area, ha
C8.C. Area available, including		_____ ha	_____ ha
C9.C. Area uncultivated		_____ ha	_____ ha
C10.C. Area cultivated		_____ ha	_____ ha
C11.C. How much is:	C11.1.C. Owned	_____ ha	
	C11.1.C. Rented	_____ ha	
	C11.1.C. Used for free	_____ ha	
C12.C. <i>If rented:</i> How much did you pay in total for land rental in Area outside A and B? <i>If you pay in kind, estimate value in Lei</i>		_____ Lei	
C13.C. What was the volume of water you used to irrigate the land in Area outside A and B? <i>Enter m<sup>3</sup>; enter 0 if not irrigated</i>		_____ m <sup>3</sup>	

Crop	C14.C. Cultivated crops	C15.C. Open field area, ha	C16.C. Covered area, ha	C17.C. Area irrigated, ha (of C15.C+C16.C)	C18.C. Number of trees	C19.C. Amount harvested, tons
1. Wheat	1					
2. Barley	2					
3. Oat	3					
4. Corn	4					
5. Sweet corn	5					
6. Pea	6					
7. Bean	7					
8. Fodder plant/forage	8					
9. Tobacco	9					
10. Sunflower	10					
11. Rapeseed	11					
12. Soybean	12					
13. Potato	13					
14. Cabbage	14					
15. Tomato	15					
16. Pepper	16					
17. Onion	17					
18. Cucumber	18					
19. Carrot	19					
20. Watermelon	20					
21. Seed	21					
22. Veg. seedling (item)	22					
23. Tree fruit seedling (item)	23					
24. Natural pastures/hayfields	24					
25. Apple	25					
26. Pear	26					
27. Sweet cherry	27					
28. Plum	28					
29. Peach	29					
30. Apricot	30					
31. Walnut	31					
32. Strawberry	32					
33. Table grape	33					
34. Technical grape	34					
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Now I'd like to talk with you about crops that you harvested from all three of these areas, excluding the garden plot. Please tell me about the 2013 agricultural season (**01 November 2012 – 31 October 2013**) only.

**C 20. [Interviewer: For each crop, enter C19.A+C19.B+C19.C in C20]:** For each cultivated crop, please confirm that I have correct volume harvested in all areas in tons.

**Ask C21-C27 for each crop marked >0 in C20:**

**C 21.** For each of these crops, please tell me the volume sold in tons.

**C 22.** For each of these crops, please tell me the volume consumed by the household in tons. Please include consumption by livestock.

**C 23.** For each of these crops, please tell me the volume bartered or paid as rent in tons.

**C 24.** For each of these crops, please tell me the volume paid for labor in tons.

**C 25.** For each of these crops, please tell me the volume damaged / destroyed / lost in tons.

**C 26.** For each of these crops, please tell me the volume left as of the interview date in tons. Include the amount in cold storage.

**C 27.** For each of these crops, please tell me the volume stored in a cold storage facility.

**For C20-C27, enter amount in tons unless specified as “item” (crops #22 & #23)**

**Use the following codes: -89 = Refused; -99 = Don't know**

**[Interviewer: please check that  $C21+C22+C23+C24+C25+C26=C20$ ]**

**PRODUCTION IN ALL AREAS (EXCLUDING GARDEN PLOT)**

Crop	C20. Total harvest, tons	C21. Amount sold, tons	C22. Amount consumed by HH and farm, tons	C23. Amount bartered / paid as rent, tons	C24. Amount paid to labor, tons	C25. Amount damaged / destroyed / lost, tons	C26. Amount left, tons	C27. Amount stored in cold storage facility (of C20), tons
1. Wheat								
2. Barley								
3. Oat								
4. Corn								
5. Sweet corn								
6. Pea								
7. Bean								
8. Fodder plant/forage								
9. Tobacco								
10. Sunflower								
11. Rapeseed								
12. Soybean								
13. Potato								
14. Cabbage								
15. Tomato								
16. Pepper								
17. Onion								
18. Cucumber								
19. Carrot								
20. Watermelon								
21. Seed								
22. Veg. seedling (item)								
23. Tree fruit seedling (item)								
24. Natural pastures/hayfields								
25. Apple								
26. Pear								
27. Sweet cherry								
28. Plum								
29. Peach								
30. Apricot								
31. Walnut								
32. Strawberry								
33. Table grape								
34. Technical grape								
-----								
-----								
-----								

**For C20-C27, enter amount in tons unless specified as “item” (crops #22 & #23)**

*Use the following codes: -89 = Refused; -99 = Don't know*

*[Interviewer: please check that C21+C22+C23+C24+C25+C26=C20]*

Now I would like to ask you about crops that you sold during the 2013 agricultural season. Please do not include crops sold from the garden plot.

***For each crop sold ( $C21 > 0$ ), ask C28-C32:***

***C 28.*** Please tell me the volume sold in thousands of Lei.

***C 29.*** Which months did you sell the crop? ***[Mark all that apply; insert months in digits separated by semicolons]***

***C 30.*** To whom did you sell the crop? ***[Mark all that apply]***

***C 31.*** Where did you sell the crop? ***[Mark all that apply]***

***C 32.*** Was this crop sold on the local market or was it exported? ***[Mark all that apply]***

***C 33.*** Please tell me the total amount received from sales in thousands of Lei. ***[Column sum of C28]***

***Use the following codes: -89 = Refused; -99 = Don't know***

**SALES FROM FARM PRODUCTION (EXCLUDING GARDEN PLOT)**

Crop	C28. Amount sold, thousands of Lei	C29. Months: 1-12	C30. Buyer of the product					C31. Point of Sale					C32. Destination of products			
			End consumer (direct)	Trader/intermediary	Processor	Retailer (supermarket)	Other	Farm gate/road side	Village market	Raion market	Regional market	Other than local/regional market	In-country market	Export	Refused	Don't know
1. Wheat			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
2. Barley			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
3. Oat			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
4. Corn			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
5. Sweet corn			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
6. Pea			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
7. Bean			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
8. Fodder plant/forage			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
9. Tobacco			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
10. Sunflower			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
11. Rapeseed			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
12. Soybean			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
13. Potato			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
14. Cabbage			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
15. Tomato			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
16. Pepper			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
17. Onion			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
18. Cucumber			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
19. Carrot			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
20. Watermelon			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
21. Seed			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
22. Veg. seedling (item)			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
23. Tree fruit seedling (item)			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
24. Natural pastures/hayfields			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
25. Apple			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
26. Pear			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99

27. Sweet cherry			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
28. Plum			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
29. Peach			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
30. Apricot			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
31. Walnut			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
32. Strawberry			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
33. Table grape			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
34. Technical grape			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
-----			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
-----			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
-----			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
C33. Total amount sold, thousands of Lei																



**C 34.** During the 2013 agricultural season, how much (in total, in MDL) did you (your farm) spend on the following? If you don't pay money for any of the listed items but do obtain them or use your own, estimate the value in Lei. Please include expenses associated with cultivation of the garden plot. Even if an expense can be categorized under more than one row, please include it only once. *[Read out the list and mark one answer per row.]*

	Lei	Refused	Don't know
1. Seeds / seedlings		89	99
2. Fertilizers		89	99
3. Herbicides, fungicides, insecticides, other chemicals		89	99
4. Livestock purchase expenses		89	99
5. Livestock care expenses (feed, veterinary, market, etc.)		89	99
6. Mechanized services (disking, plowing, seeding, etc.)		89	99
7. Part-time labor		89	99
8. Other labor (including full-time labor)		89	99
9. Irrigation water		89	99
10. Drainage services		89	99
11. Cold storage rental payments		89	99
12. Transportation costs		89	99
13. Post-harvest activities		89	99
14. Marketing costs		89	99
15. Repayments of loan principal and interest for agricultural loans		89	99
16. Other taxes related to agricultural production or sales		89	99
17. Rental payments to landowners for agricultural land		89	99
18. Agricultural land taxes		89	99
19. Equipment for drip irrigation		89	99
20. Equipment for sprinklers		89	99
21. Expenses associated with connecting to irrigation sources		89	99
22. Greenhouse construction and maintenance		89	99
23. Cold storage construction and maintenance		89	99
24. Other storage and physical/infrastructure improvements for farm		89	99
25. Agricultural land purchases		89	99
26. Agricultural equipment purchases		89	99
27. Other farm consumables (including tools, spare parts, and fuel)		89	99
28. Other major farming expenditures (specify) _____			
29. Other major farming expenditures (specify) _____			

**D. FOCAL PLOT**

Now I'd like to ask you some questions about one of your land plots.

*[Interviewer: read out cadastral code and show the plot on the map; re-enter cadastral code from the screener]*

Cadastral code		
<b>D 1.</b> During the 2013 agricultural season, was the total area of <u>this particular plot</u> available for your or your household's use? <i>[One answer]</i>		
Yes	1	<i>Skip to D3</i>
No	2	<i>Continue</i>
Refused	89	
Don't know	99	
<b>D 2.</b> During the 2013 agricultural season, how much of <u>this plot</u> was available for your or your household's use? <i>[Enter ha]</i>		
Enter hectares	_____ ha	
Refused	-89	
Don't know	-99	
<b>D 3.</b> In the 2013 agricultural season, did you or someone else in your household own <u>this plot</u> ? <i>[One answer]</i>		
Yes	1	<i>Skip to D5</i>
No, I/we rented it	2	<i>Continue</i>
No, but I/we did not pay to use it	3	<i>Skip to D8</i>
Refused	89	
Don't know	99	
<b>D 4.</b> In the 2013 agricultural season, how much (total) did you pay for the use of this plot? <i>[Insert Lei; if you paid in kind, estimate value in Lei; if you rented only part of the plot, please indicate how much rent was paid for the part that you rented.]</i>		
Lei	_____ Lei	<i>Skip to D8</i>
Refused	-89	
Don't know	-99	
<b>D 5.</b> How did you or your household obtain <u>this plot</u> ? <i>[One answer]</i>		
Privatization	1	<i>Skip to D8</i>
Inheritance	2	
Purchase	3	<i>Continue</i>
Refused	89	<i>Skip to D8</i>
Don't know	99	
<b>D 6.</b> In what year did you purchase this plot? <i>[One answer]</i>		
Enter year	_____ year	
Refused	-89	
Don't know	-99	
<b>D 7.</b> How much did you pay for this plot? <i>[One answer]</i>		
Enter Lei	_____ Lei	
Refused	-89	
Don't know	-99	
<b>D 8.</b> In the 2013 agricultural season, did you cultivate this plot? <i>[One answer]</i>		
Yes	1	<i>Skip to D10</i>
No	2	<i>Continue</i>
Refused	89	
Don't know	99	

<b>D 9. Why wasn't this plot cultivated during the 2013 agricultural season? [Mark all that apply]</b>			
Not yet productive	1	<b>Skip to D24</b>	
Fallow	2		
Flooded	3		
Rough-stalk meadow	4		
No available labor	5		
No working capital	6		
Other	7		
Refused	89		
Don't know	99		
<b>D 10. During the 2013 agricultural season, how much area of this plot did you cultivate? [Enter ha]</b>			
Enter hectares	_____ ha		
Refused	-89		
Don't know	-99		
<b>D 11. D11.1 In the 2013 agricultural season, which crops did your farm operation cultivate on this plot? If you cultivated a crop but did not have a harvest, please still provide the crop code. [Enter codes from Section C; if no code, specify crop; mark all that apply]</b>			
<b>D11.2. In the 2013 agricultural season how much did you harvest from this plot for each crop listed in D11.1? [Estimate tons (or items, if crop #22 or #23); if no harvest of this crop from this plot, enter 0; -89 = Refused; -99 = Don't know]</b>			
	<b>D11.1. Cultivated Enter code</b>	<b>D11.2. Harvest, tons</b>	
Crop 1			
Crop 2			
Crop 3			
Crop 4			
Crop 5			
Crop 6			
Crop 7			
Crop 8			
Crop 9			
Crop 10			
Refused	89		
Don't know	99		
<b>D 12. In the 2013 agricultural season, how many person-days did household members work on this plot? Indicate values separately for men and women. [Estimate person-days]</b>			
Men	_____ person-days		
Women	_____ person-days		
Refused	-89		
Don't know	-99		
<b>D 13. Excluding household members, in the 2013 agricultural season, how many person-days did paid full-time laborers work on this plot? Indicate values separately for men and women. [Estimate person-days]</b>			
Men	_____ person-days		
Women	_____ person-days		
Refused	-89		
Don't know	-99		
<b>D 14. Excluding household members, in the 2013 agricultural season, how many person-days did paid part-time laborers work on this plot? Indicate values separately for men and women. [Estimate person-days]</b>			
Men	_____ person-days		
Women	_____ person-days		
Refused	-89		
Don't know	-99		

<b>D 15. Ask this question if paid laborers (full-time or part-time) worked on the plot.</b> Please estimate the total amount paid to laborers separately to men and women for work on <u>this plot</u> during the 2013 agricultural season. If the laborers worked on more than one plot, please estimate how much of their wages can be attributed to work on this plot. Include the share of payments for mechanized services that can be attributed to labor. <i>[Enter amount in Lei including the value of any in-kind payments]</i>		
Men	_____ Lei	
Women	_____ Lei	
Refused	-89	
Don't know	-99	
<b>D 16. Does this plot include an orchard, even if it is not productive? [One answer]</b>		
Yes	1	<i>Continue</i>
No	2	<i>Skip to D19</i>
Refused	89	
Don't know	99	
<b>D 17. How long ago were the trees planted, on average? [Enter average number of years]</b>		
Number of years	_____ years	
Refused	-89	
Don't know	-99	
<b>D 18. Approximately how many trees are planted on the plot? [Enter number of trees]</b>		
Number of trees	_____ trees	
Refused	-89	
Don't know	-99	
<b>D 19. Is there a covered area on this plot? [One answer]</b>		
Yes	1	
No	2	
Refused	89	
Don't know	99	
<b>D 20. During the 2013 agricultural season, how much area of this plot did you irrigate? [Enter ha]</b>		
None	0	<i>Skip to D24</i>
Total area	1	<i>Continue</i>
Part of the area <i>[Enter ha]</i>	_____ ha	
Refused	-89	<i>Skip to D24</i>
Don't know	-99	
<b>D 21. Over the 2013 agricultural season, how many cubic meters of water did you use to irrigate this plot? [Enter m<sup>3</sup>]</b>		
Enter cubic meters	_____ m <sup>3</sup>	
Refused	-89	
Don't know	-99	
<b>D 22. During the 2013 agricultural season, how much did you pay, (1) on average, per cubic meter of irrigation water or (2) for all irrigation water used for this plot? [Enter either Lei per m<sup>3</sup> OR Lei total]</b>		
Irrigation price per cubic meter	_____ Lei/m <sup>3</sup>	
Total irrigation in Lei for this plot	_____ Lei/total	
Refused	-89	
Don't know	-99	
<b>D 23. In the 2013 agricultural season, what irrigation source was used for this plot? [Mark all that apply]</b>		
CIS/Apele Moldovei	1	<i>Skip to Section E</i>
CIS/WUA	2	
Private provider	3	
Own water source: well, lake, pool	4	
Other	5	
Refused	89	
Don't know	99	

**D 24. If you had access to irrigation water, what would you do differently on this plot? [Mark all that apply]**

I already have access to irrigation water	1	<i>Skip to Section E</i>
I would make no changes	2	
I would irrigate only in cases of severe drought	3	
I would irrigate but make no changes to the crops I cultivate	4	<i>Continue</i>
I would irrigate and cultivate vegetables	5	
I would irrigate and cultivate orchard	6	
I would irrigate and cultivate vineyard	7	
I would irrigate and cultivate other crops	8	
I would sell my land	9	<i>Skip to Section E if 3-8 are not also marked</i>
I would rent out my land	10	
Other (specify) _ _ _ _ _		
Refused	89	<i>Skip to Section E</i>
Don't know	99	

**D 25.** How would your household finance irrigation and crop production (if applicable) on this plot?

**[Mark all that apply]**

Own sources (family and relatives)	1
Informal loan	2
Microfinance institution or savings and credit association	3
Leasing company	4
Commercial bank	5
Other	6
Refused	89
Don't know	99

**E. OTHER FARMING EXPERIENCE**

In the past 12 months, from whom have you .....

*[For each column, mark all that apply]*

	<i>E 1.</i> Learned about new agricultural practices	<i>E 2.</i> Learned about which crops to cultivate	<i>E 3.</i> Learned at what price to sell your product	<i>E 4.</i> Received technical advice regarding your farm operation	<i>E 5.</i> Learned about preparing business plans and / or submitting subsidy/credit applications
Agroinform	1	1	1	1	1
ACSA	2	2	2	2	2
MAFI	3	3	3	3	3
Raion Department for Agriculture and Food	4	4	4	4	4
ACED	5	5	5	5	5
Agroconnect.md	6	6	6	6	6
Mass media	7	7	7	7	7
Farm input supplier	8	8	8	8	8
Buyer/market	9	9	9	9	9
Farmers in the same community	10	10	10	10	10
Farmers in other communities	11	11	11	11	11
Family members	12	12	12	12	12
Other	13	13	13	13	13
No one	14	14	14	14	14
Refused	89	89	89	89	89
Don't know	99	99	99	99	99

*E 6.* Did you cooperate with another farmer or farmers in any of these activities during the 2013 agricultural season? *[Mark all that apply]*

Crop selection	1
Purchasing of inputs	2
Seedling production	3
Mechanical services	4
Harvesting	5
Storage	6
Grading, sorting, and packaging	7
Marketing	8
Transportation	9
None	10
Refused	89
Don't know	99

**E 7.** During the past agricultural season (2013), did your farm experience any weather, plant diseases, or pests that adversely affected production? *[Mark all that apply]*

Droughts	1
Floods	2
Heavy rainstorms (Ploi torentiale)	3
Freezing conditions	4
Hail	5
Soil erosion	6
Biotic pests (insects, phytopathogenic contaminants (agenti fitopatogeni), animals)	7
Other severe pests	8
None	9
Refused	89
Don't know	99

**E 8.** Relative to a typical year, during the past agricultural season (2013) did your farm receive: *[One answer]*

Less rainfall than is typical	1
The same amount of rainfall as is typical	2
More rainfall than is typical	3
Refused	89
Don't know	99

**E 9.** During 2013, which was the busiest month of the agricultural season for your household / farm: *[Enter month]*

Enter month	-- month
Refused	89
Don't know	99

**E 10.** During this month, how much time did you spend on the different activities listed in the table below in a typical 24-hour time period? Please provide your best estimate. *[Ask for each activity separately]*

	List of Activities	HH/MM	Refused	Don't Know
1	Sleeping or resting	--/--	89	99
2	Leisure	--/--	89	99
3	Personal care (including eating and drinking, bathing, etc.)	--/--	89	99
4	Household work / care	--/--	89	99
5	Non-agricultural work	--/--	89	99
6	Agricultural work	--/--	89	99
		<b>Total should sum to 24 hours</b>		

**F. IRRIGATION MANAGEMENT, SATISFACTION, AND USAGE**

**F 1.** Now I'd like to ask you about irrigation on your farm during the 2013 agricultural season.

	CIS / Apele Moldovei	CIS/WU A	Private Provider	Own water source: well, lake, pool	Other	
F1.1. Which external irrigation sources were available to your farm if desired, not including irrigation water you accessed directly? Please tell me about all of your land, not just land inside a CIS area. <i>[For each irrigation source marked in F1.1, go through F1.2-F1.6 before turning to the next source.]</i>						
Available	1	1	1	1	1	
Not available	2	2	2	2	2	Skip to next source; if Other, skip to F2
Refused	89	89	89	89	89	
Don't know	99	99	99	99	99	
F1.2. Did your farm utilize the irrigation from [SOURCE] during the 2013 agricultural season? <i>[Ask F1.3-F1.6 for the source only if F1.2 = 1-Utilized]</i>						
Utilized	1	1	1	1	1	
Not utilized	2	2	2	2	2	Skip to next source; if Other, skip to F2
Refused	89	89	89	89	89	
Don't know	99	99	99	99	99	
F1.3. How satisfied are you with the water quality (presence of sediment or other elements) from [SOURCE]? <i>[One answer]</i>						
Totally unsatisfied	1	1	1	1	1	
Somewhat unsatisfied	2	2	2	2	2	
Neither unsatisfied nor satisfied	3	3	3	3	3	
Somewhat satisfied	4	4	4	4	4	
Totally satisfied	5	5	5	5	5	
Refused	89	89	89	89	89	
Don't know	99	99	99	99	99	
F1.4. How satisfied are you with the ease of working with [SOURCE] on things like ordering, billing, and other matters? <i>[One answer]</i>						
Totally unsatisfied	1	1	1		1	
Somewhat unsatisfied	2	2	2		2	
Neither unsatisfied nor satisfied	3	3	3		3	
Somewhat satisfied	4	4	4		4	
Totally satisfied	5	5	5		5	
Refused	89	89	89		89	
Don't know	99	99	99		99	
F1.5. How satisfied are you with the cost/affordability of irrigation water from [SOURCE]? <i>[One answer]</i>						
Totally unsatisfied	1	1	1		1	
Somewhat unsatisfied	2	2	2		2	
Neither unsatisfied nor satisfied	3	3	3		3	
Somewhat satisfied	4	4	4		4	
Totally satisfied	5	5	5		5	
Refused	89	89	89		89	
Don't know	99	99	99		99	
F1.6. How satisfied are you with the timely delivery of irrigation water from [SOURCE]? <i>[One answer]</i>						
Totally unsatisfied	1	1	1		1	
Somewhat unsatisfied	2	2	2		2	
Neither unsatisfied nor satisfied	3	3	3		3	
Somewhat satisfied	4	4	4		4	
Totally satisfied	5	5	5		5	



Refused	89	89	89		89	
Don't know	99	99	99		99	

**F 2.** How did your farm's irrigation water delivery service in 2013 compare with irrigation service provided in the 2012 agricultural season? *[One answer]*

Did not use irrigation in 2012, 2013, or both	1
Much worse	2
Somewhat worse	3
The same	4
Somewhat better	5
Much better	6
Refused	89
Don't know	99

**F 3.** Did you or members of your household/farm ever sign a water supply contract? *[Mark all that apply]*

Yes, I/we have had or currently have a contract with a WUA	1
Yes, I/we have had or currently have a contract with Apele Moldovei	2
Yes, I/we have had or currently have a contract with another organization	3
No	4
Refused	89
Don't know	99

**F 4.** Is there a water users' association (WUA) in your community? *[One answer]*

Yes	1	<i>Continue</i>
No	2	
Refused	89	
Don't know	99	

**F 5.** Are you a member of a WUA? *[One answer]*

Yes	1	<i>Skip to F7</i>
No	2	
Refused	89	<i>Continue</i>
Don't know	99	

**F 6.** Is another member of your household/farm a member of a WUA? *[One answer]*

Yes	1	<i>Skip to F10</i>
No	2	
Refused	89	<i>Skip to Section G</i>
Don't know	99	

**F 7.** What is your position in the WUA? *[One answer]*

Regular member	1
Sector representative	2
Executive staff	3
Administrative council member	4
Other administrative position	5
Refused	89
Don't know	99

**F 8.** How often does the WUA General Meeting take place? *[One answer]*

At least once a month	1
At least once a quarter	2
At least once every six months	3
At least once a year	4
Refused	89
Don't know	99

**F 9.** Out of the last 5 WUA General Meetings, how many did you attend? *[Enter number of meetings]*

<i>Enter number, must be ≤ 5</i>	
Refused	89
Don't know	99

**F 10.** Have you/your household/farm paid your WUA membership fees for the current period? *[One answer]*

Yes	1
No	2
Refused	89
Don't know	99

**F 11.** Have you/your household/farm paid your irrigation fees for the current period? *[One answer]*

Yes	1
No	2
Not applicable	88
Refused	89
Don't know	99

**F 12.** Please rate the degree to which you disagree or agree with the following statements on 5 point scale where: 1="strongly disagree", 3="neither agree nor disagree," and 5="strongly agree."  
*[One answer per row]*

	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree	Refused	Don't know
F12.1. Being part of a WUA is a real advantage to my farm business.	1	2	3	4	5	89	99
F12.2. The WUA management is transparent.	1	2	3	4	5	89	99
F12.3. The WUA is really active in organizing and working with farmers.	1	2	3	4	5	89	99
F12.4. Farmers in this area cooperate well.	1	2	3	4	5	89	99
F12.5. The WUA is advancing the interests of all members.	1	2	3	4	5	89	99
F12.6. The WUA membership fee is fair.	1	2	3	4	5	89	99
F12.7. The WUA irrigation fees are fair.	1	2	3	4	5	89	99

**G. AGRICULTURAL TRAININGS****G1.** Did you attend agricultural training in the previous 12 months? *[One answer]*

Yes	1	<i>Skip to G5</i>
No	2	<i>Continue</i>
Refused	89	
Don't know	99	

**G2. Why didn't you attend training? [Mark all that apply]**

I have not heard about any agricultural trainings in my area	1
Trainings were too far away	2
Trainings were too expensive	3
Trainings were too time-consuming	4
Training topics were too expensive to implement	5
Training topics were too advanced for me	6
Training topics were too simple for me	7
Trainings were focused on crops that are not of interest to me	8
Had pressing work/business to attend to	9
Had pressing social obligation	10
Someone else from my farm attended	11
Refused	89
Don't know	99

**G3. Did someone else from your household attend agricultural training in the previous 12 months? [One answer]**

Yes	1	<i>Continue</i>
No	2	<i>Skip to Section H</i>
Refused	89	
Don't know	99	

**G4. Who from your household attended the most recent agricultural training? [enter roster code of household member from Section A]**

Household member roster code from Section A		<i>Continue to G5 with the training attendee. If the training attendee is not available to answer questions, please skip to Section H.</i>
Refused	89	
Don't know	99	

I'd like to ask you some questions about the most recent training that you attended:

**G5.** When did the training occur? *[Interviewer: if the date is not in the previous 12 months, ask respondent if he/she attended a more recent training. If not, skip to Section H.]*

Enter month and year	--/----
	MM/YEAR
Refused	89
Don't know	99

**G6.** What was the focus of this training? *[Mark all that apply]*

New varieties	1
Crop profitability	2
New agricultural practices and modern technologies	3
Greenhouse building and design	4
Harvest and post-harvest practices	5
Production of seedlings / seeds	6
Use of irrigation	7
Market access	8
Use of chemicals and fertilizers	9
Cost analysis	10
Other (specify)	-----
Other (specify)	-----
Other (specify)	-----
Refused	89
Don't know	99

**G7.** On what crop or crops did this training focus? *[Mark all that apply; enter crop codes from Section C; if the training did not focus on a particular crop, enter 1]*

No specific crop	1
Tomatoes	2
Other vegetables	3
Apples	4
Stone fruit	5
Table grapes	6
Other <i>[enter crop code from Section C, if applicable]</i>	-----
Refused	89
Don't know	99

**G8.** Was this training provided by the ACED project (which is sponsored by USAID, MCA-Moldova, and MCC)? *[One answer]*

Yes	1	<i>Skip to G10</i>
No	2	
Refused	89	
Don't know	99	

**G9.** Who provided the training? *[Mark all that apply]*

Private provider	1
------------------	---

MAFI	2
Raion Department for Agriculture and Food	3
Extension Service provider (ACSA network)	4
International TA project	5
Other (specify)	_____
Other (specify)	_____
Other (specify)	_____
Refused	89
Don't know	99

**G10.** How many other members of your household participated in this training (with you)? [**Do not include yourself in the count**]

Insert number	___
Refused	89
Don't know	99

**G11.** In what city/village and raion was the training conducted? [**Complete each row**]

Country: [ <b>if not Moldova</b> ]	_____
Raion:	_____
City / village:	_____
Refused	89
Don't know	99

*[Interviewer, if the primary respondent did not respond to G5-G11, please thank training participant for his/her time and continue interview with primary respondent (farm operator).]*

**H. CROP AND POST HARVESTING PRACTICES/EQUIPMENT**

Now I'd like to ask about practices or equipment that you or others may have used in producing crops on your farm.

**APPLE PRACTICES**

**H1.** Did the household/farm cultivate apples in the 2013 agricultural season outside the garden plot?  
[One answer; interviewer: check C14.A + C14.B + C14.C to determine if the respondent cultivates apples]

Yes	1	<i>Continue</i>
No	2	<i>Skip to H7</i>
Refused	89	
Don't know	99	

**H2.** Show card H2 During the past agricultural season (2013), did you or others apply/utilize *this practice or equipment on your farm?* [Read out practices and equipment one by one]

Apple Practices and Equipment	Yes	No	Refused	Don't know
1. implementing intensive orchard systems	1	2	89	99
2. weather stations	1	2	89	99
3. drip irrigation	1	2	89	99
4. water testing	1	2	89	99
5. fertigation	1	2	89	99
6. anti-hail net	1	2	89	99
7. frost management	1	2	89	99
8. integrated disease and pest management	1	2	89	99
9. fruit thinning to increase size of apples	1	2	89	99
10. picking bags	1	2	89	99
11. harvesting platforms	1	2	89	99
12. wood containers for harvest	1	2	89	99
13. plastic containers for harvest	1	2	89	99
14. color charts	1	2	89	99
15. penetrometers	1	2	89	99
16. cold storage (if not using, skip to 20)	1	2	89	99
17. humidity or temperature control in storage areas	1	2	89	99
18. putting crates or boxes on pallets or using corner boards	1	2	89	99
19. ethylene management (SmartFresh)	1	2	89	99
20. grading and sorting equipment	1	2	89	99
21. humidity or temperature control in packing areas	1	2	89	99
22. modified atmosphere/modified humidity packaging	1	2	89	99
23. tray liners	1	2	89	99
24. open trays	1	2	89	99
25. punnets	1	2	89	99
26. returnable plastic crates	1	2	89	99
27. pre-cooling	1	2	89	99

**H3.** Check for apple practices (H2): [One answer]

At least one practice was used according to H2	1	<i>Continue</i>
None of the practices were used according to H2	2	<i>Skip to H6</i>

**H4.** From whom or what did you learn about these practices or equipment? Please select the two main sources of information. [Mark up to two]

Family member	1
---------------	---

Education (diploma)	2
Training session	3
Expert consultant	4
Neighbor	5
Other farmer	6
Mass media	7
Other	8
Refused	89
Don't know	99

**H5.** During the past agricultural season (2013), on how many hectares did you apply at least one of these apple practices? [*Enter ha*]

Enter Ha	_____ ha
Refused	89
Don't know	99

**H6.** There were apple production-related practices / equipment listed earlier that you never used. Considering all of the practices and equipment that you did not use, what were the two main reasons that you did not use those practices or equipment during the past agricultural season (2013)? [*Mark up to two*]

Did not know about practice/equipment	1
Costly	2
Doesn't seem useful	3
Too advanced	4
Takes too much time	5
Used in previous season (if practice is not yearly)	6
Other	7
Refused	89
Don't know	99

**TABLE GRAPE PRACTICES**

**H7.** Did the household/farm cultivate table grapes in the 2013 agricultural season outside the garden plot? [*One answer; interviewer: check C14.A + C14.B + C14.C to determine if the respondent cultivates table grapes*]

Yes	1	<i>Continue</i>
No	2	<i>Skip to H13</i>
Refused	89	
Don't know	99	

**H8.** *Show card H8* During the past agricultural season (2013), did you or others apply/utilize *this practice or equipment on your farm?* [*Read out practices and equipment one by one*]

Table Grape Practices and Equipment	Yes	No	Refused	Don't know
1. cluster thinning	1	2	89	99
2. bark girdling to increase grape size	1	2	89	99
3. growth stimulators	1	2	89	99
4. introducing new varieties	1	2	89	99
5. weather stations	1	2	89	99
6. drip irrigation	1	2	89	99
7. water testing; in other words, testing pH and/or salt concentration in water used for irrigation	1	2	89	99
8. fertigation (use of fertilizers dissolved in water in drip irrigation)	1	2	89	99
9. anti-hail net	1	2	89	99
10. frost management	1	2	89	99
11. integrated disease and pest management	1	2	89	99
12. harvesting platforms	1	2	89	99
13. putting crates or boxes on pallets or using corner boards for harvesting	1	2	89	99
14. cold storage ( <i>if not using, skip to 19</i> )	1	2	89	99
15. humidity or temperature control in storage areas	1	2	89	99
16. inner packaging/storage (sulfur pads)	1	2	89	99
17. room cooling (forced-air)	1	2	89	99
18. pre-cooling	1	2	89	99
19. putting crates or boxes on pallets or using corner boards for packing	1	2	89	99
20. modified atmosphere/modified humidity packaging	1	2	89	99
21. water-absorbent pads	1	2	89	99
22. open trays	1	2	89	99
23. punnets	1	2	89	99
24. returnable plastic crates	1	2	89	99

**H9.** Check for table grape practices (H8): [*One answer*]

At least one practice was used according to H8	1	<i>Continue</i>
None of the practices were used according to H8	2	<i>Skip to H12</i>



**H10.** From whom or what did you learn about these practices or equipment? Please select the two main sources of information. *[Mark up to two]*

Family member	1
Education (diploma)	2
Training session	3
Expert consultant	4
Neighbor	5
Other farmer	6
Mass media	7
Other	8
Refused	89
Don't know	99

**H11.** During the past agricultural season (2013), on how many hectares did you apply at least one of these table grape practices? *[Enter ha]*

Enter Ha	_____ ha
Refused	89
Don't know	99

**H12.** There were table grape production-related practices / equipment listed earlier that you never used. Considering all of the practices and equipment that you did not use, what were the two main reasons that you did not use those practices or equipment during the past agricultural season (2013)? *[Mark up to two]*

Did not know about practice/equipment	1
Costly	2
Doesn't seem useful	3
Too advanced	4
Takes too much time	5
Used in previous season (if practice is not yearly)	6
Other	7
Refused	89
Don't know	99

**TOMATO AND TOMATO SEEDLING PRACTICES**

**H13.** Did the household/farm cultivate tomatoes or tomato seedlings in the 2013 agricultural season outside the garden plot? [*One answer; interviewer: check C14.A + C14.B + C14.C to determine if the respondent cultivates tomatoes or tomato seedlings*]

Yes	1	<i>Continue</i>
No	2	<i>Skip to H19</i>
Refused	89	
Don't know	99	

**H14. Show card H14** During the past agricultural season (2013), did you or others apply/utilize *this practice or equipment on your farm?* [*Read out practices and equipment one by one*]

<b>Tomato and Tomato Seedling Practices and Equipment</b>	Yes	No	Refused	Don't know
1. seedling production ( <i>if not, skip to 12</i> )	1	2	89	99
2. integrated disease and pest management for seedling production	1	2	89	99
3. micro climate control systems in greenhouses (ventilation, use of double layer film, heating) for seedling production	1	2	89	99
4. introducing new varieties/hybrids for seedling production	1	2	89	99
5. pallets for seedling production trays	1	2	89	99
6. peat for seedling production	1	2	89	99
7. drip irrigation for seedling production	1	2	89	99
8. water testing for seedling production; in other words, testing pH and/or salt concentration in water used for irrigation	1	2	89	99
9. fertigation (use of fertilizers dissolved in water in drip irrigation) for seedling production	1	2	89	99
10. supplementary illumination for seedling production	1	2	89	99
11. energy saving techniques and equipment for seedling production such as double tunnels and biomass heating generators	1	2	89	99
12. bumblebees or other techniques to increase tomato pollination in greenhouses	1	2	89	99
13. micro climate control systems in greenhouses (ventilation, use of double layer film, heating) for vegetable production	1	2	89	99
14. introducing new varieties/hybrids for vegetable production	1	2	89	99
15. mulching for vegetable production	1	2	89	99
16. drip irrigation for vegetable production	1	2	89	99
17. water testing for vegetable production; in other words, testing pH and/or salt concentration in water used for irrigation	1	2	89	99
18. fertigation for vegetable production (use of fertilizers dissolved in water in drip irrigation)	1	2	89	99
19. energy saving techniques and equipment for vegetable production such as double layer or biomass heating generators	1	2	89	99
20. growth stimulators for vegetable production	1	2	89	99
21. support systems for vegetable production	1	2	89	99
22. harvesting platform	1	2	89	99
23. plastic boxes	1	2	89	99
24. putting crates or boxes on pallets or using corner boards	1	2	89	99
25. tray liners	1	2	89	99
26. water-absorbent pads	1	2	89	99
27. open trays	1	2	89	99
28. punnets	1	2	89	99
29. returnable plastic crates	1	2	89	99

**H15.** Check for tomato and tomato seeding practices (H14): [*One answer*]

At least one practice was used according to H14	1	<i>Continue</i>
---	---	-----------------

None of the practices were used according to H14	2	<b><i>Skip to H18</i></b>
--	---	---------------------------

**H16.** From whom or what did you learn about these practices or equipment? Please select the two main sources of information. ***[Mark up to two]***

Family member	1
Education (diploma)	2
Training session	3
Expert consultant	4
Neighbor	5
Other farmer	6
Mass media	7
Other	8
Refused	89
Don't know	99

**H17.** During the past agricultural season (2013), on how many hectares did you apply at least one of these tomato and tomato seedling practices? ***[Enter ha]***

Enter Ha	_____ ha
Refused	89
Don't know	99

**H18.** There were tomato and tomato seedling production-related practices / equipment listed earlier that you never used. Considering all of the practices and equipment that you did not use, what were the two main reasons that you did not use those practices or equipment during the past agricultural season (2013)? ***[Mark up to two]***

Did not know about practice/equipment	1
Costly	2
Doesn't seem useful	3
Too advanced	4
Takes too much time	5
Used in previous season (if practice is not yearly)	6
Other	7
Refused	89
Don't know	99

**STONE FRUIT PRACTICES**

**H19.** Did the household/farm cultivate stone fruits in the 2013 agricultural season outside the garden plot? [*One answer; interviewer: check C14.A + C14.B + C14.C to determine if the respondent cultivates stone fruits: sweet cherry, plum, peach, or apricot*]

Yes	1	<i>Continue</i>  <i>Skip to Section I</i>
No	2	
Refused	89	
Don't know	99	

**H20. Show card H20** During the past agricultural season (2013), did you or others apply/utilize *this practice or equipment on your farm?* [*Read out practices and equipment one by one*]

Stone Fruit Practices and Equipment	Yes	No	Refused	Don't know
1. intensive orchard systems; in other words, using new rootstocks, new cultivars, or tree support systems	1	2	89	99
2. weather stations	1	2	89	99
3. drip irrigation	1	2	89	99
4. water testing; in other words, testing pH and/or salt concentration in water used for irrigation	1	2	89	99
5. fertigation (use of fertilizers dissolved in water in drip irrigation)	1	2	89	99
6. anti-hail net	1	2	89	99
7. anti-rain nets	1	2	89	99
8. frost management	1	2	89	99
9. manual thinning	1	2	89	99
10. summer pruning	1	2	89	99
11. winter pruning	1	2	89	99
12. testing bud fertility	1	2	89	99
13. canopy training	1	2	89	99
14. horizontal lining of bearing branches	1	2	89	99
15. picking bags	1	2	89	99
16. cold storage ( <i>if not using, skip to 21</i> )	1	2	89	99
17. humidity or temperature control in storage areas	1	2	89	99
18. putting crates or boxes on pallets or using corner boards	1	2	89	99
19. ethylene management (SmartFresh)	1	2	89	99
20. implementing controlled atmosphere in storage	1	2	89	99
21. temperature or humidity control in packing areas	1	2	89	99
22. modified atmosphere/modified humidity packaging	1	2	89	99
23. tray liners	1	2	89	99
24. open trays	1	2	89	99
25. punnets	1	2	89	99
26. pre-cooling	1	2	89	99

**H21.** Check for stone fruit practices (H20): [*One answer*]

At least one practice was used according to H20	1	<i>Continue</i>
None of the practices were used according to H20	2	<i>Skip to H24</i>

**H22.** From whom or what did you learn about these practices or equipment? Please select the two main sources of information. *[Mark up to two]*

Family member	1
Education (diploma)	2
Training session	3
Expert consultant	4
Neighbor	5
Other farmer	6
Mass media	7
Other	8
Refused	89
Don't know	99

**H23.** During the past agricultural season (2013), on how many hectares did you apply at least one of these stone fruit practices? *[Enter ha]*

Enter Ha	_____ ha
Refused	89
Don't know	99

**H24.** There were stone fruit production-related practices / equipment listed earlier that you never used. Considering all of the practices and equipment that you did not use, what were the two main reasons that you did not use those practices or equipment during the past agricultural season (2013)? *[Mark up to two]*

Did not know about practice/equipment	1
Costly	2
Doesn't seem useful	3
Too advanced	4
Takes too much time	5
Used in previous season (if practice is not yearly)	6
Other	7
Refused	89
Don't know	99

**I. CREDIT**

**I 1.** Have you or a member of your household applied for a loan to finance the farm's operations from a bank, a micro-credit organization, a savings and credit association, or a government or donor sponsored credit program in the past year? [*One answer*]

Yes	1	<i>Skip to I3</i>
No	2	<i>Continue</i>
Refused	89	
Don't know	99	

**I 2.** What was the main reason for not applying? [*One answer*]

Did not think I/we would qualify for a loan due to insufficient collateral	1	<i>Skip to section J</i>
Did not think I/we would qualify for a loan due to credit history	2	
Did not think I/we would qualify for a loan for other reasons	3	
The terms of loans available are unfavorable to me/us	4	
Afraid I/we would not be able to pay back the loan/did not wish to get into debt/too risky to take on debt	5	
I/we did not know of available loans in my/our area/not sure of application process	6	
I/we were able to borrow what was needed from family/friends	7	
I/we did not need a loan	8	
Other (specify) _____		
Refused	89	
Don't know	99	

**I 3.** Have any of these loan applications been approved? [*One answer*]

Yes, at least one was approved	1	<i>Continue</i>
No, none were approved and none are pending	2	<i>Skip to I14</i>
At least one is pending but none were approved	3	
Refused	89	
Don't know	99	

**Starting with the most recent loan approved, please tell me:**

	Loan 1	Loan 2	Loan 3
<b>I 4. When was the loan approved? [One answer; if earlier than January 2013, skip to next section]</b>			
Enter MM /YYYY	--/----	--/----	--/----
Refused	89	89	89
Don't know	99	99	99
<b>I 5. What was the purpose of the loan? What was the loan for? [Mark all that apply]</b>			
Purchasing land	1	1	1
Purchasing inputs (for example, fertilizer/pesticides/improved seeds)	2	2	2
Paying for irrigation water	3	3	3
Introducing new crops	4	4	4
Purchasing livestock	5	5	5
Purchasing irrigation equipment	6	6	6
Purchasing other farm equipment (for example, a tractor)	7	7	7
Improvements to existing buildings or infrastructure	8	8	8
Constructing a greenhouse	9	9	9
Constructing new buildings or infrastructure for post-harvest activities (e.g., cold storage, packaging, sorting, etc.)	10	10	10
Constructing new buildings or infrastructure for other purposes	11	11	11
Refinancing/covering other loans or debts	12	12	12
Other	13	13	13
Refused	89	89	89
Don't know	99	99	99
<b>I 6. Who applied for the loan? [One answer]</b>			
Enter household roster code (from Section A)			
Refused	89	89	89
Don't know	99	99	99
<b>I 7. Who made the decision to apply for the loan? [One answer]</b>			
Enter household roster code (from Section A)			
Refused	89	89	89
Don't know	99	99	99
<b>I 8. What was the source of credit? [One answer]</b>			
RISP	1	1	1
IFAD credit line	2	2	2
Millennium Challenge Account-Moldova credit line/Access to Agricultural Finance (AAF) activity	3	3	3
Other donor credit line	4	4	4
Private or commercial bank's own resources	5	5	5
Micro-credit organization <sup>1</sup>	6	6	6
Savings and credit association	7	7	7
Other (specify)	-----	-----	-----
Refused	89	89	89
Don't know	99	99	99

	Loan 1	Loan 2	Loan 3
<b>I 9. What was the currency of the loan? [One answer]</b>			
EURO	1	1	1
MDL	2	2	2

<sup>1</sup> RFC, Microinvest, Prime Capital, Easycredit, Iutecredit, Invest-Credit, Gifi Vostok, Elat Profit, Priminvestnord, Excelent Finantare, Credit-Profit, Creditera, Dogmat Credit, Luxigorus, Credit-Rapid.

	Loan 1	Loan 2	Loan 3
USD	3	3	3
Refused	89	89	89
Don't know	99	99	99
<b>I 10. What was the initial size of loan? [One answer; in thousands; use the same currency as in I9]</b>			
Enter amount in thousands	_____	_____	_____
Refused	89	89	89
Don't know	99	99	99
<b>I 11. What was the assessed value of collateral? [One answer; in thousands; use the same currency as in I9]</b>			
Enter amount in thousands	_____	_____	_____
Refused	89	89	89
Don't know	99	99	99
<b>I 12. What was the term of loan? [One answer]</b>			
Enter number of months			
Refused	89	89	89
Don't know	99	99	99
<b>I 13. What was the interest rate of the loan? [One answer]</b>			
Enter interest rate / percent	____, ____ %	____, ____ %	____, ____ %
Refused	89	89	89
Don't know	99	99	99

**I 14. If you or a member of your household applied for a loan to finance the farm's operations in the past year and were/was rejected, what do you think was the main reason for rejection? [One answer]**

No applications were rejected	1
Poor business plan or inability to demonstrate income	2
Insufficient collateral	3
Discrimination against farmers/people like me/us	4
Bad credit history	5
Repayment too risky	6
I/we do not have crop insurance	7
The loan I/we applied for was too small to interest the lender	8
Other (specify) _____	
Refused	89
Don't know	99



**J. EMPLOYMENT, INCOME, AND CONSUMPTION**

**J 1.** Now I want to ask you some questions regarding the income of you and your household members. *The list of household members must be tied to the Household Roster (Section A); household numbers must be the same. Include information for every household member who was present in the household during 3 of the past 12 months and is 16 years old or older. Reenter A1 in column J1.1 and skip J1.2 if J1.1 is not marked*

**J 2.** What is this person's highest level of completed education? *[Ask only for those marked in J1.2; one answer]*

**J 3.** What is this person's primary occupation? *[Ask only for those marked in J1.2; one answer]*

**J 4.** What was this person's total net non-agricultural income over the past 12 months for each of the following categories? *[Ask only for those marked in J1.2; indicate amount in THOUSANDS of Lei; if the income cannot be provided by categories, insert total income in the last column; -89 = Refused; -99 = Don't know]*

Household members		J1. Fill in based on Section A		J2. Education	J3. Primary occupation	J4. Net non-agricultural income over the past 12 months <i>THOUSANDS OF LEI</i>								
		J1.1. Re-enter A1 (Present in the HH)	J1.2. Mark all who are 16+ (based on A6)	1=No education or primary 2=Gymnasium / 8 grades 3=Lyceum / General (10 grades) 4=Secondary specialized (SPT) 5=College / Technicum 6=Higher 89=Refused 99=Don't know	1=Farmer 2=Employee in agricultural sector 3=Employee in non-agricultural sector 4=Self-employed 5=Student 6=Pensioner 7=Other 89=Refused 99=Don't know	No non-agricultural income	Wages	Self-employment income	Pensions and social payments	Support and remittances	Rental income	Other source of non-agricultural income	TOTAL NON-AGRICULTURAL INCOME	
1	Husband	1	1			0								
2	Wife	2	2			0								
3	Child 1	3	3			0								
4	Child 2	4	4			0								
5	Child 3	5	5			0								
6	Child 4	6	6			0								
7	Child 5	7	7			0								
8	Son-in-law/daughter in law	8	8			0								
9	Son-in-law/daughter in law	9	9			0								
10	Grandchild	10	10			0								
11	Grandchild	11	11			0								
12	Grandchild	12	12			0								
13	Grandparent	13	13			0								
14	Grandparent	14	14			0								
15	Other _____	15	15			0								
16	Other _____	16	16			0								
17	Other _____	17	17			0								

**J 5.** Do you consider agricultural activities to be the main source of your household's income?

**[One answer]**

Yes	1
No	2
Refused	89
Don't know	99

**J 6.** Did/do you want your children to be farmers? **[One answer]**

I do not have children	1
Yes	2
No	3
Refused	89
Don't know	99

**J 7.** How much did your household spend (in MDL) during the last year **not including agricultural expenses**? Please include all household expenses, including food, utilities, clothing, etc., as well as large purchases. **[Please provide your best estimate]**

Average annual household spending for 2013	_____ Lei
Refused	-89
Don't know	-99

**S. SPOUSE MODULE**

*Check A1 and if the respondent has spouse – wife or husband – ask him / her to invite spouse for about 10 minutes to answer several questions. Re-enter spouse’s roster code and ask following questions.*

**S 1.** Please, insert spouse roster code from Section A: \_ \_

*Use the following codes for S2:*

<b>1 = Only me</b>	<b>88 = Not applicable</b>
<b>2 = Only my spouse</b>	<b>89 = Refused</b>
<b>3 = Both me and my spouse</b>	<b>99 = Don’t know</b>
<b>4 = Other family member</b>	
<b>5 = All family members equally</b>	

**S 2.** I’d like to ask you about your farm. Please tell me: *[Read out the list of codes; enter code in each row]*

S2.1. Who in your household decided this season (2013) where and what crops to cultivate?	
S2.2. Who in your household decided this season (2013) when and where to sell crops cultivated?	
S2.3. Who in your household decided this season (2013) how much irrigation water to use?	

**S 3.** Now I would like to ask you some questions regarding your current membership in **producer / agricultural organizations**.

S3.1. Are you a member of any producer / agricultural organizations? [One answer]		
Yes, and it is/they are functional	1	Continue
Yes, but it is/they are not functional	2	
No	3	Skip to S4
Refused	89	
Don't know	99	
S3.2. Do you have a leadership position in any producer / agricultural organizations? [One answer]		
Yes	1	
No	2	
Refused	89	
Don't know	99	
S3.3. How much input do you have in making decisions in producer / agricultural organizations to which you belong? [One answer]		
No input	1	
Input into some decisions	2	
Input into most decisions	3	
Refused	89	
Don't know	99	

**S 4.** Now I would like to ask you some questions regarding your current membership in any types of **cooperatives related to production, business, and marketing of agricultural products.**

<b>S4.1. Are you a member of any cooperatives? [One answer]</b>		
Yes, and it is/they are functional	1	<i>Continue</i>
Yes, but it is/they are not functional	2	<i>Skip to S5</i>
No	3	
Refused	89	
Don't know	99	
<b>S4.2. Do you have a leadership position in any cooperatives? [One answer]</b>		
Yes	1	
No	2	
Refused	89	
Don't know	99	
<b>S4.3. How much input do you have in making decisions in cooperatives to which you belong? [One answer]</b>		
No input	1	
Input into some decisions	2	
Input into most decisions	3	
Refused	89	
Don't know	99	

**S 5.** Now I would like to ask you some questions regarding your current membership in **savings and credit associations.**

<b>S5.1. Are you a member of any savings and credit associations? [One answer]</b>		
Yes, and it is/they are functional	1	<i>Continue</i>
Yes, but it is/they are not functional	2	<i>Skip to S6</i>
No	3	
Refused	89	
Don't know	99	
<b>S5.2. Do you have a leadership position in any savings and credit associations? [One answer]</b>		
Yes	1	
No	2	
Refused	89	
Don't know	99	
<b>S5.3. How much input do you have in making decisions in savings and credit associations to which you belong? [One answer]</b>		
No input	1	
Input into some decisions	2	
Input into most decisions	3	
Refused	89	
Don't know	99	

**S 6.** Are you a member of a Water Users' Association (WUA)? *[One answer]*

Yes	1
No	2
Refused	89
Don't know	99

**S 7.** During 2013, which was the busiest month of the agricultural season for your household / farm:  
**[Enter month]**

Enter month	__ <i>month</i>
Refused	89
Don't know	99

**S 8.** During this month, how much time did you spend on the different activities listed in the table below in a typical 24-hour time period? Please provide your best estimate. **[Ask for each activity separately]**

	List of Activities	HH/MM	Refused	Don't Know
1	Sleeping or resting	__ / __	89	99
2	Leisure	__ / __	89	99
3	Personal care (including eating and drinking, bathing, etc.)	__ / __	89	99
4	Household work / care	__ / __	89	99
5	Non-agricultural work	__ / __	89	99
6	Agricultural work	__ / __	89	99
		<b>Total should sum to 24 hours</b>		

Questionnaire #

Explain to the respondent that this is a longitudinal survey and that we will probably need to contact him / her in the future for participation. Explain that names and contact information will be kept confidential.

Reenter farm operator code	<input type="text"/>
----------------------------	----------------------

		Respondent	Spouse (if applicable)	Training attendee (if applicable)	Alternative contact person	
1	Name / Surname					
2	Relation to respondent				Family member/Relative	1
					Friend	2
					Neighbor	3
					Other	4
3	Telephone number					
4	Alternative telephone number					
5	Address	CIS area (if applicable)				
		Region				
		Raion				
		Primaria				
		Settlement (village / town)				
		Detailed address				

**To be completed after the interview (Q7-Q13):****Q 7. Spouse interview result:**

Spouse is not present	1
Spouse is present but not available	2
Spouse is present but refuses to participate	3
Farm operator does not have a spouse	4
Spouse interview incomplete	5
Spouse interview completed	6
Other (specify) _ _ _ _ _	

	<b>Name</b>	<b>ID</b>
<b>Q 8.</b> Rayon Coordinator (in capitals)		
<b>Q 9.</b> Field Manager (in capitals)		
<b>Q 10.</b> Revision Specialist (in capitals)		
<b>Q 11.</b> Data entry clerk #1 (in capitals)		
<b>Q 12.</b> Data entry clerk #2 (in capitals)		

**Q 13. Quality control result:**

Quality control procedure was conducted	1	Date: [_] [_] [_ _]
Quality control procedure was not conducted	2	

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## **APPENDIX E**

### **LARGE FARM QUESTIONNAIRE**

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**MOLDOVA 2013/2014 FARM OPERATOR SURVEY**

		FOS 2013/2014 sample		FOS interview
		1. Name / text	2. Code	3. Name / text
		Complete these columns before the interview based on the sampling data		Based on the interview
X. 1	Farm area	_____ ha		_____ ha
X. 2	Farm operator			
X. 3	Respondent			
X. 4	CIS			
X. 5	Sample ID			
<b>Plot 1</b>				
X. 6.P1	Cadastral code			
X. 7.P1	Plot area	_____ ha		_____ ha
X. 8.P1	Plot owner			
<b>Plot 2</b>				
X. 6.P2	Cadastral code			
X. 7.P2	Plot area	_____ ha		_____ ha
X. 8.P2	Plot owner			
<b>Plot 3</b>				
X. 6.P3	Cadastral code			
X. 7.P3	Plot area	_____ ha		_____ ha
X. 8.P3	Plot owner			
<b>Plot 4</b>				
X. 6.P4	Cadastral code			
X. 7.P4	Plot area	_____ ha		_____ ha
X. 8.P4	Plot owner			
<b>Plot 5</b>				
X. 6.P5	Cadastral code			
X. 7.P5	Plot area	_____ ha		_____ ha
X. 8.P5	Plot owner			

(1) *Include precise information on farm area, in decimals*

(2) *If total farm area based on interview (X.1.3) is <100 ha, continue with Small and Medium Farm Questionnaire; if ≥100 ha, continue with Large Farm Questionnaire.*

**X. 9.** Before beginning the survey, I would like to ask you a question to determine if you are eligible to complete the survey. *[Show the respondent the cadastral codes and point out the plots on a map.]* During the 2013 agricultural season, did your farm operate any of these plots?

Yes, my farm operation cultivated crops on at least one of these plots	1	“You are eligible to complete the survey.” <i>Continue</i>
Yes, my farm operation had control of at least one of these plots, even though it was/they were uncultivated	2	“You are eligible to complete the survey.” <i>Continue</i>
No, my farm operation did not have control over what happened on any of these plots	3	<i>Code interview result as “farm/HH is not eligible” in Q4-Q6; ASK FIELD SUPERVISOR TO PROVIDE REPLACEMENT</i>
Refused	89	<i>Code interview result as “refused” in Q4-Q6; ASK FIELD SUPERVISOR TO PROVIDE REPLACEMENT</i>
Don’t know	99	<i>Code interview result as “other” in Q4-Q6; ASK FIELD SUPERVISOR TO PROVIDE REPLACEMENT</i>

	Name	Code
<b>Q 1.</b> Region (in capitals)		
<b>Q 2.</b> District/rayon (in capitals)		
<b>Q 3.</b> Settlement/village (in capitals)		

Questionnaire #
-----------------

**MOLDOVA LARGE-SIZED FARM OPERATOR SURVEY (2013/2014)****Consent Statement:**

Hello, my name is **(First name, last name):**

I represent the Agribusiness Development Institute, which is fielding the Farm Operator Survey in Moldova. The study is funded by the Millennium Challenge Corporation, an agency of the U.S. Government, and is being guided by Mathematica Policy Research, a US-based organization.

You have been selected for an interview based on the fact that you farm a land plot located in an “Apele Moldovei” Central Irrigation System Area or adjacent to this area. Your participation is very important to understand the situation of farmers in your region. The information that we will collect will serve to measure the impact of rehabilitation of irrigation infrastructure in Moldova. Your reliable answers are very important for us.

The interview will take approximately two to three hours.

All the information we obtain will remain strictly confidential. This information will not be released in any way that would allow identification of yourself, your household, or your answers. This information will be used for evaluation purposes only, and all identifiable information such as names or contact information will be removed.

Your participation is voluntary and you may choose not to answer any or all questions for any reason.

You may contact ADI’s Regional Coordinator for this survey, at a number I can provide, if you have questions, concerns, or complaints about the study or your rights as a participant.

Do you have any questions before we begin?

INTERVIEWER VISITS				
		Q 4. Visit 1	Q 5. Visit 2	Q 6. Visit 3 – final
1. Date [DD] [MM] [YYYY]		[ ] [ ] [ ] [ ] [ ] [ ]	[ ] [ ] [ ] [ ] [ ] [ ]	[ ] [ ] [ ] [ ] [ ] [ ]
2. Interviewer (in capitals)		name: _____ ID: _____	name: _____ ID: _____	name: _____ ID: _____
3. Interview time	Start [HH] [MM]	[ ] [ ] [ ] [ ]	[ ] [ ] [ ] [ ]	[ ] [ ] [ ] [ ]
	End [HH] [MM]	[ ] [ ] [ ] [ ]	[ ] [ ] [ ] [ ]	[ ] [ ] [ ] [ ]
4. Visit result <i>see result codes below</i>		[ ] [ ]	[ ] [ ]	[ ] [ ]
5. Appointment for the next visit	Date [DD] [MM] [YYYY]	[ ] [ ] [ ] [ ] [ ] [ ]	[ ] [ ] [ ] [ ] [ ] [ ]	
	Time [HH] [MM]	[ ] [ ] [ ] [ ]	[ ] [ ] [ ] [ ]	
	Location	_____	_____	

***DON'T FILL THE TABLE! Use codes to fill in 4. visit result above.***

*Interview result codes:*

Interview completed	1	
No one home	2	<b><i>Make next appointment</i></b>
Farmer not available	3	<b><i>Make next appointment</i></b>
Incomplete	4	<b><i>Make next appointment</i></b>
Refused	5	
Farm/HH is not eligible	6	
Farm/HH not located	7	
Other (Specify) _____		

**A. RESPONDENT CHARACTERISTICS AND BASIC FARM INFORMATION**

I would like to ask you some questions about your farm:

**A 1. What is your role on the farm? [Mark all that apply]**

Owner / Shareholder	1
Manager	2
Economist / Accountant	3
Other	4
Refused	89
Don't know	99

**A 2. How many years have you been involved with this farm? [Enter number of years]**

Enter number of years	--
Refused	89
Don't know	99

**A 3. When was the farm founded? [Enter year]**

Enter year	----
Refused	89
Don't know	99

**A 4. What is the legal status of the farm? [One answer]**

Limited company	1
Joint stock company	2
Cooperative	3
Individual entrepreneur	4
Partnership	5
Association / union	6
Taxing physical entity	7
Peasant farm	8
Other (specify) _____	
Refused	89
Don't know	99

**A 5. What is the ownership status of the farm? [one answer]**

Private business	1	<i>Continue</i>
State owned	2	<i>Skip to A7</i>
Joint ownership	3	<i>Continue</i>
Refused	89	<i>Skip to A7</i>
Don't know	99	

**A 6.** A6.1. How many owners own the farm? *[Enter number of owners]*

A6.2. How many of them are men? *[Enter number of male owners]*

A6.3. How many of them are women? *[Enter number of female owners]*

	1. All owners	2. Male owners	3. Female owners
Enter number of persons	_____	_____	_____
Refused	89	89	89
Don't know	99	99	99

**A 7.** Could you please specify the number of paid employees who worked on your farm during the 2013 agricultural season (**01 November 2012 – 31 October 2013**) by the following categories:

A7.1. Employees in managerial positions: (1) total number, (2) male managers, (3) female managers.

A7.2. Other full-time employees: (1) total number, (2) male employees, (3) female employees.

*[Interviewer: If the respondent knows the approximate number, write in the number he/she indicates. If the respondent doesn't know the number, please ask him/her if it is possible to consult his/her records. If the respondent does not know the number and cannot retrieve it from the records, please write code "-99" in the relevant cell; if the respondent refuses to provide the number, write code "-89" in the relevant cell; if the respondent did not have any employees of that type during the 2013 agricultural season, write "0" in the relevant cell.]*

	1. Total	2. Male	3. Female
A7.1. Managers			
A7.2. Other full-time employees			

**A 8.** Please estimate the total amount that managerial workers and other full-time employees were paid for work on your farm during the 2013 agricultural season. *[Enter amount in Lei including value of any in-kind payments]*

	1. Total amount paid to employees	2. Amount paid to male employees	3. Amount paid to female employees
Amount paid to employees	_____ Lei	_____ Lei	_____ Lei
Refused	-89	-89	-89
Don't know	-99	-99	-99

**A 9.** In the 2013 agricultural season, how many paid part-time laborers worked on your farm?

*[Estimate person-days]*

	Men	Women
Person-days	_____ person-days	_____ person-days
Refused	-89	-89
Don't know	-99	-99

**B. FARM AND COMMUNITY CHARACTERISTICS**

**B 1.** Which of the following assets does your farm own? *[Read out the list; mark all that apply; if the farm owns asset jointly with another farm, mark as owned]*

Farm building(s)	1
Greenhouse(s)	2
Tractor	3
Irrigation equipment	4
None	5

**B 2.** Did your farm rent space in an operational cold storage facility for storing your crops during the 2013 season? *[One answer]*

Yes	1
No	2
Refused	89
Don't know	99

**B 3.** Did your farm own or was it a shareholder of an operational cold storage facility for storing your crops during the 2013 season? *[One answer]*

Yes	1	<b>Skip to B5 Continue</b>
No	2	
Refused	89	
Don't know	99	

**B 4.** How close is the nearest operational cold storage facility to your farm? *[One answer]*

Less than 1 km	1
At least 1 km but less than 5 km	2
At least 5 km but less than 10 km	3
At least 10 km but less than 15 km	4
More than 15 km	5
Refused	89
Don't know	99

**B 5.** Now I would like to ask you some questions regarding your farm's current membership in **producer / agricultural organizations**.

B5.1. Is your farm a member of any producer / agricultural organizations? <i>[One answer]</i>		
Yes, and it is/they are functional	1	<i>Continue</i>
Yes, but it is/they are not functional	2	
No	3	
Refused	89	
Don't know	99	
B5.2. Do you have a leadership position in any producer / agricultural organizations? <i>[One answer]</i>		
Yes	1	
No	2	
Refused	89	
Don't know	99	
B5.3. How much input do you have in making decisions in producer / agricultural organizations to which your farm belongs? <i>[One answer]</i>		
No input	1	
Input into some decisions	2	
Input into most decisions	3	
Refused	89	
Don't know	99	

**B 6.** Now I would like to ask you some questions regarding your farm's current membership in any



types of **cooperatives related to production, business, and marketing of agricultural products.**

B6.1. Is your farm a member of any cooperatives? <i>[One answer]</i>		
Yes, and it is/they are functional	1	<i>Continue</i>
Yes, but it is/they are not functional	2	<i>Skip to B7</i>
No	3	
Refused	89	
Don't know	99	
B6.2. Do you have a leadership position in any cooperatives? <i>[One answer]</i>		
Yes	1	
No	2	
Refused	89	
Don't know	99	
B6.3. How much input do you have in making decisions in cooperatives to which your farm belongs? <i>[One answer]</i>		
No input	1	
Input into some decisions	2	
Input into most decisions	3	
Refused	89	
Don't know	99	

**B 7.** Now I would like to ask you some questions regarding your farm's current membership in **savings and credit associations.**

B7.1. Is your farm a member of any savings and credit associations? <i>[One answer]</i>		
Yes, and it is/they are functional	1	<i>Continue</i>
Yes, but it is/they are not functional	2	<i>Skip to Section C</i>
No	3	
Refused	89	
Don't know	99	
B7.2. Do you have a leadership position in any savings and credit associations? <i>[One answer]</i>		
Yes	1	
No	2	
Refused	89	
Don't know	99	
B7.3. How much input do you have in making decisions in savings and credit associations to which your farm belongs? <i>[One answer]</i>		
No input	1	
Input into some decisions	2	
Input into most decisions	3	
Refused	89	
Don't know	99	

### C. FARM PRODUCTION, REVENUE, AND COSTS

Now I'd like to ask you some questions about crop production and revenue in field plots (Art. 82 and Art. 11) and greenhouses during the 2013 agricultural season. I'm interested in learning separately about the land and crops that you operate in different areas. **[SHOW MAPS]**

**C 1. Before completing C2 to C13, show the respondent the map and find out in which of the areas his/her farm operates land plots.** Please tell me, on which of these areas did your farm operate land during 2013 agricultural season? **[Mark all that apply; not all maps will have Area B designated]**

Operated land in Area A	1	<i>Complete C2 to C13 for LAND AND CULTIVATION IN AREA A</i>
Operated land in Area B	2	<i>Complete C2 to C13 for LAND AND CULTIVATION IN AREA B</i>
Operated land outside Area A and Area B	3	<i>Complete C2 to C13 for LAND AND CULTIVATION OUTSIDE AREA A AND AREA B</i>
Don't know	89	<i>Complete C2 to C13 in the first table - LAND AND CULTIVATION IN AREA A – but describe land and cultivation over all land, not just Area A</i>
Refused	99	

When answering these questions, please tell me about the 2013 agricultural season (**01 November 2012 – 31 October 2013**) only.

**[Interviewer: Ask for each area designated on the map: Area A, Area B, and the area that is neither Area A nor Area B:]**

**C 2.** C2.1. In the 2013 agricultural season, how much land in an open field, including uncultivated land, was available to your farm **in this area**? **[Insert ha]**

C2.2. How much land in covered areas, including uncultivated land, was available to your farm **in this area**? **[Insert ha]**

**C 3.** C3.1. How much land in an open field in this area was uncultivated?

C3.2. How much land in covered areas in this area was uncultivated?

**C 4.** 4.1. How much land in an open field in this area was cultivated?

C4.2. How much land in covered areas in this area was cultivated?

**[Interviewer: check that  $C3+C4=C2$ ]**

**C 5.** Out of the land available **in this area**, how much was (1) owned, (2) rented, and (3) used for free? **[Insert ha]**

**[Interviewer: check that  $C5.1 + C5.2 + C5.3 = C2.1 + C2.2$ ]**

**C 6.** **[Ask if  $C5.2 > 0$ ]** How much did you pay for land rental **in this area**? **[If you pay in kind, estimate value in Lei]**

**C 7.** What was the volume of water you used to irrigate the land **in this area**? **[Enter  $m^3$ ; enter 0 if not irrigated]**

**C 8.** Now let me ask you some questions regarding the crops your farm cultivated in the 2013 agricultural season. Which crops did your farm cultivate **in this area**? **[Show crop card; mark all cultivated crops; if the crop is not shown, please enter it at the bottom of the table]**

**C 9.** **[Ask for each crop marked in C8]** For each cultivated crop, on how much land **in this area** did you cultivate this crop in an open field? **[Enter ha]**

**C 10.** **[Ask for each crop marked in C8]** For each cultivated crop, on how much land **in this area** did you cultivate this crop in a covered area? **[Enter ha]**

**C 11.** **[Ask for each crop with  $C9 > 0$  or  $C10 > 0$ ]** For each crop cultivated **in this area**, how much was irrigated/watered? **[Enter ha]**

**C 12.** **[Ask for each crop marked in C8 that is grown in an orchard]** Approximately how many trees did you cultivate **in this area**?

**C 13.** **[Ask for each crop marked in C8]** For each cultivated crop, please tell me the volume harvested from all land **in this area**, including open field area and covered area. **[Enter amount in tons unless specified as “item” (crops #22 & #23)]**

**Use the following codes: -89 = Refused; -99 = Don't know**

**For C9, C10, and C11, indicate each area in ha:  $10000\text{ m}^2 = 100\text{ Ares} = 1\text{ ha}$**

**LAND AND CULTIVATION IN AREA A:** First, I'd like you to tell me about your land in Area A.  
*[Show respondent area designated on the map]*

		1. Open field area, ha	2. Covered area, ha
C2.A. Area available, including		_____ ha	_____ ha
C3.A. Area uncultivated		_____ ha	_____ ha
C4.A. Area cultivated		_____ ha	_____ ha
C5.A. How much is:	C5.1.A. Owned	_____ ha	
	C5.2.A. Rented	_____ ha	
	C5.3.A. Used for free	_____ ha	
C6.A. <i>If rented:</i> How much did you pay in total for land rental in Area A? <i>If you pay in kind, estimate value in Lei</i>		_____ Lei	
C7.A. What was the volume of water you used to irrigate the land in Area A? <i>Enter m<sup>3</sup>; enter 0 if not irrigated</i>		_____ m <sup>3</sup>	

Crop	C8.A. Cultivated crops	C9.A. Open field area, ha	C10.A. Covered area, ha	C11.A. Area irrigated, ha (of C9.A+C10.A)	C12.A. Number of trees	C13.A. Amount harvested, tons
1. Wheat	1					
2. Barley	2					
3. Oat	3					
4. Corn	4					
5. Sweet corn	5					
6. Pea	6					
7. Bean	7					
8. Fodder plant/forage	8					
9. Tobacco	9					
10. Sunflower	10					
11. Rapeseed	11					
12. Soybean	12					
13. Potato	13					
14. Cabbage	14					
15. Tomato	15					
16. Pepper	16					
17. Onion	17					
18. Cucumber	18					
19. Carrot	19					
20. Watermelon	20					
21. Seed	21					
22. Veg. seedling (item)	22					
23. Tree fruit seedling (item)	23					
24. Natural pastures/hayfields	24					
25. Apple	25					
26. Pear	26					
27. Sweet cherry	27					
28. Plum	28					
29. Peach	29					
30. Apricot	30					
31. Walnut	31					
32. Strawberry	32					
33. Table grape	33					
34. Technical grape	34					
-----						
-----						
-----						

**LAND AND CULTIVATION IN AREA B:** Now, I'd like you to tell me about your land in Area B.  
*[Show respondent area designated on the map]*

		1. Open field area, ha	2. Covered area, ha
C2.B. Area available, including		_____ ha	_____ ha
C3.B. Area uncultivated		_____ ha	_____ ha
C4.B. Area cultivated		_____ ha	_____ ha
C5.B. How much is:	C5.1.B. Owned	_____ ha	
	C5.2.B. Rented	_____ ha	
	C5.3.B. Used for free	_____ ha	
C6.B. <i>If rented:</i> How much did you pay in total for land rental in Area B? <i>If you pay in kind, estimate value in Lei</i>		_____ Lei	
C7.B. What was the volume of water you used to irrigate the land in Area B? <i>Enter m<sup>3</sup>; enter 0 if not irrigated</i>		_____ m <sup>3</sup>	

Crop	C8.B. Cultivated crops	C9.B. Open field area, ha	C10.B. Covered area, ha	C11.B. Area irrigated, ha (of C9.B+C10.B)	C12.B. Number of trees	C13.B. Amount harvested, tons
1. Wheat	1					
2. Barley	2					
3. Oat	3					
4. Corn	4					
5. Sweet corn	5					
6. Pea	6					
7. Bean	7					
8. Fodder plant/forage	8					
9. Tobacco	9					
10. Sunflower	10					
11. Rapeseed	11					
12. Soybean	12					
13. Potato	13					
14. Cabbage	14					
15. Tomato	15					
16. Pepper	16					
17. Onion	17					
18. Cucumber	18					
19. Carrot	19					
20. Watermelon	20					
21. Seed	21					
22. Veg. seedling (item)	22					
23. Tree fruit seedling (item)	23					
24. Natural pastures/hayfields	24					
25. Apple	25					
26. Pear	26					
27. Sweet cherry	27					
28. Plum	28					
29. Peach	29					
30. Apricot	30					
31. Walnut	31					
32. Strawberry	32					
33. Table grape	33					
34. Technical grape	34					

**LAND AND CULTIVATION OUTSIDE AREA A AND AREA B:** Finally, I'd like you to tell me about your land outside Areas A and B. *[Show respondent area designated on the map]*

		1. Open field area, ha	2. Covered area, ha
C2.C. Area available, including		_____ ha	_____ ha
C3.C. Area uncultivated		_____ ha	_____ ha
C4.C. Area cultivated		_____ ha	_____ ha
C5.C. How much is:	C5.1.C. Owned	_____ ha	
	C5.2.C. Rented	_____ ha	
	C5.3.C. Used for free	_____ ha	
C6.C. <i>If rented:</i> How much did you pay in total for land rental in Area outside A and B? <i>If you pay in kind, estimate value in Lei</i>		_____ Lei	
C7.C. What was the volume of water you used to irrigate the land in Area outside A and B? <i>Enter m<sup>3</sup>; enter 0 if not irrigated</i>		_____ m <sup>3</sup>	

Crop	C8.C. Cultivated crops	C9.C. Open field area, ha	C10.C. Covered area, ha	C11.C. Area irrigated, ha (of C9.C+C10.C)	C12.C. Number of trees	C13.C. Amount harvested, tons
1. Wheat	1					
2. Barley	2					
3. Oat	3					
4. Corn	4					
5. Sweet corn	5					
6. Pea	6					
7. Bean	7					
8. Fodder plant/forage	8					
9. Tobacco	9					
10. Sunflower	10					
11. Rapeseed	11					
12. Soybean	12					
13. Potato	13					
14. Cabbage	14					
15. Tomato	15					
16. Pepper	16					
17. Onion	17					
18. Cucumber	18					
19. Carrot	19					
20. Watermelon	20					
21. Seed	21					
22. Veg. seedling (item)	22					
23. Tree fruit seedling (item)	23					
24. Natural pastures/hayfields	24					
25. Apple	25					
26. Pear	26					
27. Sweet cherry	27					
28. Plum	28					
29. Peach	29					
30. Apricot	30					
31. Walnut	31					
32. Strawberry	32					
33. Table grape	33					
34. Technical grape	34					
-----						
-----						
-----						

Now I'd like to talk with you about crops that you harvested from all three of these areas. Please tell me about the 2013 agricultural season (**01 November 2012 – 31 October 2013**) only.

***C 14. [Interviewer: For each crop, enter C13.A+C13.B+C13.C in C14]:*** For each cultivated crop, please confirm that I have correct volume harvested in all areas in tons.

***Ask C15-C21 for each crop marked >0 in C14:***

***C 15.*** For each of these crops, please tell me the volume sold in tons.

***C 16.*** For each of these crops, please tell me the volume consumed by the farm in tons. Please include consumption by livestock.

***C 17.*** For each of these crops, please tell me the volume bartered or paid as rent in tons.

***C 18.*** For each of these crops, please tell me the volume paid for labor in tons.

***C 19.*** For each of these crops, please tell me the volume damaged / destroyed / lost in tons.

***C 20.*** For each of these crops, please tell me the volume left as of the interview date in tons. Include the amount in cold storage.

***C 21.*** For each of these crops, please tell me the volume stored in a cold storage facility.

**For C14-C21, enter amount in tons unless specified as “item” (crops #22 & #23)**

***Use the following codes: -89 = Refused; -99 = Don't know***

***[Interviewer: please check that C15+C16+C17+C18+C19+C20=C14]***

**PRODUCTION IN ALL AREAS**

Crop	C14. Total harvest, tons	C15. Amount sold, tons	C16. Amount consumed by farm, tons	C17. Amount paid bartered / paid as rent, tons	C18. Amount paid to labor, tons	C19. Amount damaged / destroyed / lost, tons	C20. Amount left, tons	C21. Amount stored in cold storage facility (of C14), tons
1. Wheat								
2. Barley								
3. Oat								
4. Corn								
5. Sweet corn								
6. Pea								
7. Bean								
8. Fodder plant/forage								
9. Tobacco								
10. Sunflower								
11. Rapeseed								
12. Soybean								
13. Potato								
14. Cabbage								
15. Tomato								
16. Pepper								
17. Onion								
18. Cucumber								
19. Carrot								
20. Watermelon								
21. Seed								
22. Veg. seedling (item)								
23. Tree fruit seedling (item)								
24. Natural pastures/hayfields								
25. Apple								
26. Pear								
27. Sweet cherry								
28. Plum								
29. Peach								
30. Apricot								
31. Walnut								
32. Strawberry								
33. Table grape								
34. Technical grape								

**For C14-C21, enter amount in tons unless specified as “item” (crops #22 & #23)**

***Use the following codes: -89 = Refused; -99 = Don't know***

***[Interviewer: please check that  $C15+C16+C17+C18+C19+C20=C14$ ]***

Now I would like to ask you about crops that you sold during the 2013 agricultural season.



***For each crop sold ( $C15 > 0$ ), ask C22-C26:***

***C 22.*** Please tell me the volume sold in thousands of Lei.

***C 23.*** Which months did you sell the crop? ***[Mark all that apply; insert months in digits separated by semicolons]***

***C 24.*** To whom did you sell the crop? ***[Mark all that apply]***

***C 25.*** Where did you sell the crop? ***[Mark all that apply]***

***C 26.*** Was this crop sold on the local market or was it exported? ***[Mark all that apply]***

***C 27.*** Please tell me the total amount received from sales in thousands of Lei. ***[Column sum of C22]***

***Use the following codes: -89 = Refused; -99 = Don't know***

**SALES FROM FARM PRODUCTION**

Crop	C22. Amount sold, thousands of Lei	C23. Months: 1-12	C24. Buyer of the product					C25. Point of Sale					C26. Destination of products			
			End consumer (direct)	Trader/intermediary	Processor	Retailer (supermarket)	Other	Farm gate/road side	Village market	Raion market	Regional market	Other than local/regional market	In-country market	Export	Refused	Don't know
1. Wheat			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
2. Barley			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
3. Oat			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
4. Corn			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
5. Sweet corn			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
6. Pea			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
7. Bean			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
8. Fodder plant/forage			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
9. Tobacco			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
10. Sunflower			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
11. Rapeseed			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
12. Soybean			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
13. Potato			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
14. Cabbage			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
15. Tomato			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
16. Pepper			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
17. Onion			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
18. Cucumber			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
19. Carrot			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
20. Watermelon			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
21. Seed			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
22. Veg. seedling (item)			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
23. Tree fruit seedling (item)			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
24. Natural pastures/hayfields			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
25. Apple			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
26. Pear			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99

27. Sweet cherry			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
28. Plum			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
29. Peach			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
30. Apricot			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
31. Walnut			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
32. Strawberry			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
33. Table grape			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
34. Technical grape			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
-----			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
-----			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
-----			1	2	3	4	5	1	2	3	4	5	1	2	8 9	99
C27. Total amount sold, thousands of Lei																

**C 28.** During the 2013 agricultural season, how much (in total, in MDL) did your farm spend on the following? If you don't pay money for any of the listed items but do obtain them or use your own, estimate the value in Lei. Even if an expense can be categorized under more than one row, please include it only once. *[Read out the list and mark one answer per row.]*

	Lei	Refused	Don't know
1. Seeds / seedlings		89	99
2. Fertilizers		89	99
3. Herbicides, fungicides, insecticides, other chemicals		89	99
4. Livestock purchase expenses		89	99
5. Livestock care expenses (feed, veterinary, market, etc.)		89	99
6. Mechanized services (disking, plowing, seeding, etc.)		89	99
7. Part-time labor		89	99
8. Other labor (including full-time labor)		89	99
9. Irrigation water		89	99
10. Drainage services		89	99
11. Cold storage rental payments		89	99
12. Transportation costs		89	99
13. Post-harvest activities		89	99
14. Marketing costs		89	99
15. Repayments of loan principal and interest for agricultural loans		89	99
16. Other taxes related to agricultural production or sales		89	99
17. Rental payments to landowners for agricultural land		89	99
18. Agricultural land taxes		89	99
19. Equipment for drip irrigation		89	99
20. Equipment for sprinklers		89	99
21. Expenses associated with connecting to irrigation sources		89	99
22. Greenhouse construction and maintenance		89	99
23. Cold storage construction and maintenance		89	99
24. Other storage and physical/infrastructure improvements for farm		89	99

25. Agricultural land purchases		89	99
26. Agricultural equipment purchases		89	99
27. Other farm consumables (including tools, spare parts, and fuel)		89	99
28. Other major farming expenditures (specify) _____			
29. Other major farming expenditures (specify) _____			

**D. FOCAL PLOT**

Now I'd like to ask you some questions about one or more of your land plots.

**[Interviewer: read out cadastral codes and show the plots on the map; re-enter cadastral codes from screener; ask D1-D22 for plot 1, then turn to subsequent plots.]**

	Plot 1	Plot 2	Plot 3	Plot 4	Plot 5	
Cadastral code						
<b>D 1.</b> During the 2013 agricultural season, was the total area of <u>this particular plot</u> available for your farm's use? <b>[One answer]</b>						
Yes	1	1	1	1	1	<b>Skip to D3</b>
No	2	2	2	2	2	<b>Continue</b>
Refused	89	89	89	89	89	
Don't know	99	99	99	99	99	
<b>D 2.</b> During the 2013 agricultural season, how much of <u>this plot</u> was available for your farm's use? <b>[Enter ha]</b>						
Enter hectares	_____ ha	_____ ha	_____ ha	_____ ha	_____ ha	
Refused	-89	-89	-89	-89	-89	
Don't know	-99	-99	-99	-99	-99	
<b>D 3.</b> In the 2013 agricultural season, did your farm own <u>this plot</u> ? <b>[One answer]</b>						
Yes	1	1	1	1	1	<b>Skip to D5</b>
No, I/we rented it	2	2	2	2	2	<b>Continue</b>
No, but I/we did not pay to use it	3	3	3	3	3	<b>Skip to D8</b>
Refused	89	89	89	89	89	
Don't know	99	99	99	99	99	
<b>D 4.</b> In the 2013 agricultural season, how much (total) did you pay for the use of <u>this plot</u> ? <b>[Insert Lei; if you paid in kind, estimate value in Lei; if you rented only part of the plot, please indicate how much rent was paid for the part that you rented.]</b>						
Lei	_____ Lei	_____ Lei	_____ Lei	_____ Lei	_____ Lei	
Refused	-89	-89	-89	-89	-89	<b>Skip to D8</b>
Don't know	-99	-99	-99	-99	-99	
<b>D 5.</b> How did you or your farm obtain <u>this plot</u> ? <b>[One answer]</b>						
Privatization	1	1	1	1	1	<b>Skip to D8</b>
Inheritance	2	2	2	2	2	
Purchase	3	3	3	3	3	<b>Continue</b>
Refused	89	89	89	89	89	<b>Skip to D8</b>
Don't know	99	99	99	99	99	

**[Interviewer: continue to D6 for each plot before turning to the next plot.]**

	Plot 1	Plot 2	Plot 3	Plot 4	Plot 5	
<b>D 6.</b> In what year did you purchase this plot? <i>[One answer]</i>						
Enter year	_____ year	_____ year	_____ year	_____ year	_____ year	
Refused	-89	-89	-89	-89	-89	
Don't know	-99	-99	-99	-99	-99	
<b>D 7.</b> How much did you pay for this plot? <i>[One answer]</i>						
Enter Lei	_____ Lei	_____ Lei	_____ Lei	_____ Lei	_____ Lei	
Refused	-89	-89	-89	-89	-89	
Don't know	-99	-99	-99	-99	-99	
<b>D 8.</b> In the 2013 agricultural season, did you cultivate this plot? <i>[One answer]</i>						
Yes	1	1	1	1	1	<i>Skip to D10</i>
No	2	2	2	2	2	<i>Continue</i>
Refused	89	89	89	89	89	
Don't know	99	99	99	99	99	
<b>D 9.</b> Why wasn't this plot cultivated during the 2013 agricultural season? <i>[Mark all that apply]</i>						
Not yet productive	1	1	1	1	1	<i>Skip to next plot (D1); if this is the last plot, skip to D23</i>
Fallow	2	2	2	2	2	
Flooded	3	3	3	3	3	
Rough-stalk meadow	4	4	4	4	4	
No available labor	5	5	5	5	5	
No working capital	6	6	6	6	6	
Other	7	7	7	7	7	
Refused	89	89	89	89	89	
Don't know	99	99	99	99	99	
<b>D 10.</b> During the 2013 agricultural season, how much area of this plot did you cultivate? <i>[Enter ha]</i>						
Enter hectares	_____ ha	_____ ha	_____ ha	_____ ha	_____ ha	
Refused	-89	-89	-89	-89	-89	
Don't know	-99	-99	-99	-99	-99	

*[Interviewer: continue to D11 for each cultivated plot before turning to the next plot.]*

	Plot 1	Plot 2	Plot 3	Plot 4	Plot 5	
<b>D 11.</b> D11.1 In the 2013 agricultural season, which crops did your farm operation cultivate on this plot? If you cultivated a crop but did not have a harvest, please still provide the crop code. <i>[Enter codes from Section C; if no code, specify crop; mark all that apply]</i> D11.2. In the 2013 agricultural season how much did you harvest from this plot for each crop listed in D11.1? <i>[Estimate tons (or items, if crop #22 or #23); if no harvest of this crop from this plot, enter 0; -89 = Refused; -99 = Don't know]</i>						
	D11.1. Cultivated <i>Enter code</i>	D11.2. Harvest, tons	D11.1. Cultivated <i>Enter code</i>	D11.2. Harvest, tons	D11.1. Cultivated <i>Enter code</i>	D11.2. Harvest, tons
Crop 1						
Crop 2						
Crop 3						
Crop 4						
Crop 5						
Crop 6						
Crop 7						
Crop 8						
Crop 9						
Crop 10						
Refused	89		89		89	
Don't know	99		99		99	
<b>D 12.</b> In the 2013 agricultural season, how many person-days did paid full-time laborers work on this plot? Indicate values separately for men and women. <i>[Estimate person-days]</i>						
Men	_____ person-days	_____ person-days	_____ person-days	_____ person-days	_____ person-days	
Women	_____ person-days	_____ person-days	_____ person-days	_____ person-days	_____ person-days	
Refused	-89	-89	-89	-89	-89	
Don't know	-99	-99	-99	-99	-99	
<b>D 13.</b> In the 2013 agricultural season, how many person-days did paid part-time laborers work on this plot? Indicate values separately for men and women. <i>[Estimate person-days]</i>						
Men	_____ person-days	_____ person-days	_____ person-days	_____ person-days	_____ person-days	
Women	_____ person-days	_____ person-days	_____ person-days	_____ person-days	_____ person-days	
Refused	-89	-89	-89	-89	-89	
Don't know	-99	-99	-99	-99	-99	

*[Interviewer: continue to D14 for each cultivated plot before turning to the next plot.]*

	Plot 1	Plot 2	Plot 3	Plot 4	Plot 5	
<b>D 14. Ask this question if paid laborers (full-time or part-time) worked on the plot.</b> Please estimate the total amount paid to laborers separately to men and women for work on <b>this plot</b> during the 2013 agricultural season. If the laborers worked on more than one plot, please estimate how much of their wages can be attributed to work on this plot. Include the share of payments for mechanized services that can be attributed to labor. <i>[Enter amount in Lei including the value of any in-kind payments]</i>						
Men	Lei	Lei	Lei	Lei	Lei	
Women	Lei	Lei	Lei	Lei	Lei	
Refused	-89	-89	-89	-89	-89	
Don't know	-99	-99	-99	-99	-99	
<b>D 15. Does this plot include an orchard, even if it is not productive? [One answer]</b>						
Yes	1	1	1	1	1	<i>Continue</i>
No	2	2	2	2	2	<i>Skip to D18</i>
Refused	89	89	89	89	89	
Don't know	99	99	99	99	99	
<b>D 16. How long ago were the trees planted, on average? [Enter average number of years]</b>						
Number of years	years	years	years	years	years	
Refused	-89	-89	-89	-89	-89	
Don't know	-99	-99	-99	-99	-99	
<b>D 17. Approximately how many trees are planted on the plot? [Enter number of trees]</b>						
Number of trees	trees	trees	trees	trees	trees	
Refused	-89	-89	-89	-89	-89	
Don't know	-99	-99	-99	-99	-99	
<b>D 18. Is there a covered area on this plot? [One answer]</b>						
Yes	1	1	1	1	1	
No	2	2	2	2	2	
Refused	89	89	89	89	89	
Don't know	99	99	99	99	99	
<b>D 19. During the 2013 agricultural season, how much area of this plot did you irrigate? [Enter ha]</b>						
None	0	0	0	0	0	<i>Skip to next plot (D1); if this is the last plot, skip to D23</i>
Total area	1	1	1	1	1	<i>Continue</i>
Part of the area <i>[Enter ha]</i>	ha	ha	ha	ha	ha	
Refused	-89	-89	-89	-89	-89	<i>Skip to next plot (D1); if this is the last plot, skip to D23</i>
Don't know	-99	-99	-99	-99	-99	

*[Interviewer: continue to D20 for each irrigated plot before turning to the next plot.]*



	Plot 1	Plot 2	Plot 3	Plot 4	Plot 5	
<b>D 20.</b> Over the 2013 agricultural season, how many cubic meters of water did you use to irrigate this plot? <i>[Enter m<sup>3</sup>]</i>						
Enter cubic meters	_____ m <sup>3</sup>	_____ m <sup>3</sup>	_____ m <sup>3</sup>	_____ m <sup>3</sup>	_____ m <sup>3</sup>	
Refused	-89	-89	-89	-89	-89	
Don't know	-99	-99	-99	-99	-99	
<b>D 21.</b> During the 2013 agricultural season, how much did you pay, (1) on average, per cubic meter of irrigation water or (2) for all irrigation water used for this plot? <i>[Enter either Lei per m<sup>3</sup> OR Lei total]</i>						
Irrigation price per cubic meter	_____ Lei/m <sup>3</sup>	_____ Lei/m <sup>3</sup>	_____ Lei/m <sup>3</sup>	_____ Lei/m <sup>3</sup>	_____ Lei/m <sup>3</sup>	
Total irrigation in Lei for this plot	_____ Lei/total	_____ Lei/total	_____ Lei/total	_____ Lei/total	_____ Lei/total	
Refused	-89	-89	-89	-89	-89	
Don't know	-99	-99	-99	-99	-99	
<b>D 22.</b> In the 2013 agricultural season, what irrigation source was used for this plot? <i>[Mark all that apply]</i>						
CIS/Apele Moldovei	1	1	1	1	1	<i>Continue to next plot (D1); if this is the last plot, continue to D23</i>
CIS/WUA	2	2	2	2	2	
Private provider	3	3	3	3	3	
Own water source: well, lake, pool	4	4	4	4	4	
Other	5	5	5	5	5	
Refused	89	89	89	89	89	
Don't know	99	99	99	99	99	

*[Interviewer: return to D1 for the next plot (if applicable); otherwise, continue to D23.]*

**D 23.** If you had access to irrigation water, what would you do differently on these plots? *[Mark all that apply; if respondent would do different things on different plots, mark all that apply to any plot]*

I already have access to irrigation water	1	<i>Skip to Section E if 3-8 are not also marked</i>
I would make no changes	2	
I would irrigate only in cases of severe drought	3	
I would irrigate but make no changes to the crops I cultivate	4	<i>Continue</i>
I would irrigate and cultivate vegetables	5	
I would irrigate and cultivate orchard	6	
I would irrigate and cultivate vineyard	7	
I would irrigate and cultivate other crops	8	
I would sell my land	9	<i>Skip to Section E if 3-8 are not also marked</i>
I would rent out my land	10	
Other (specify) _____		
Refused	89	<i>Skip to Section E</i>
Don't know	99	

**D 24.** How would your farm finance irrigation and crop production (if applicable) on these plots? *[Mark all that apply]*

Farm's own sources	1
Informal loan	2
Microfinance institution or savings and credit association	3
Leasing company	4
Commercial bank	5
Other	6
Refused	89
Don't know	99

**E. OTHER FARMING EXPERIENCE**

In the past 12 months, from whom have you or other farm staff .....

*[For each column, mark all that apply]*

	<i>E 1.</i> Learned about new agricultural practices	<i>E 2.</i> Learned about which crops to cultivate	<i>E 3.</i> Learned at what price to sell your product	<i>E 4.</i> Received technical advice regarding your farm operation	<i>E 5.</i> Learned about preparing business plans and / or submitting subsidy/credit applications
Agroinform	1	1	1	1	1
ACSA	2	2	2	2	2
MAFI	3	3	3	3	3
Raion Department for Agriculture and Food	4	4	4	4	4
ACED	5	5	5	5	5
Agroconnect.md	6	6	6	6	6
Mass media	7	7	7	7	7
Farm input supplier	8	8	8	8	8
Buyer/market	9	9	9	9	9
Farmers in the same community	10	10	10	10	10
Farmers in other communities	11	11	11	11	11
Family members	12	12	12	12	12
Other	13	13	13	13	13
No one	14	14	14	14	14
Refused	89	89	89	89	89
Don't know	99	99	99	99	99

*E 6.* Did you cooperate with another farmer or farmers in any of these activities during the 2013 agricultural season? *[Mark all that apply]*

Crop selection	1
Purchasing of inputs	2
Seedling production	3
Mechanical services	4
Harvesting	5
Storage	6
Grading, sorting, and packaging	7
Marketing	8
Transportation	9
None	10
Refused	89
Don't know	99

**E 7.** During the past agricultural season (2013), did your farm experience any weather, plant diseases, or pests that adversely affected production? *[Mark all that apply]*

Droughts	1
Floods	2
Heavy rainstorms (Ploi torentiale)	3
Freezing conditions	4
Hail	5
Soil erosion	6
Biotic pests (insects, phytopathogenic contaminants (agenti fitopatogeni), animals)	7
Other severe pests	8
None	9
Refused	89
Don't know	99

**E 8.** Relative to a typical year, during the past agricultural season (2013) did your farm receive: *[One answer]*

Less rainfall than is typical	1
The same amount of rainfall as is typical	2
More rainfall than is typical	3
Refused	89
Don't know	99

**F. IRRIGATION MANAGEMENT, SATISFACTION, AND USAGE**

**F 1.** Now I'd like to ask you about irrigation on your farm during the 2013 agricultural season.

	CIS / Apele Moldove i	CIS/WU A	Private Provider	Own water source: well, lake, pool	Other	
F1.1. Which external irrigation sources were available to your farm if desired? Please tell me about all of your land, not just land inside a CIS area. <i>[For each irrigation source marked in F1.1, go through F1.2-F1.6 before turning to the next source.]</i>						
Available	1	1	1	1	1	
Not available	2	2	2	2	2	<i>Skip to next source; if Other, skip to F2</i>
Refused	89	89	89	89	89	
Don't know	99	99	99	99	99	
F1.2. Did your farm utilize the irrigation from [SOURCE] during the 2013 agricultural season? <i>[Ask F1.3-F1.6 for the source only if F1.2 = 1-Utilized]</i>						
Utilized	1	1	1	1	1	
Not utilized	2	2	2	2	2	<i>Skip to next source; if Other, skip to F2</i>
Refused	89	89	89	89	89	
Don't know	99	99	99	99	99	
F1.3. How satisfied are you with the water quality (presence of sediment or other elements) from [SOURCE]? <i>[One answer]</i>						
Totally unsatisfied	1	1	1	1	1	
Somewhat unsatisfied	2	2	2	2	2	
Neither unsatisfied nor satisfied	3	3	3	3	3	
Somewhat satisfied	4	4	4	4	4	
Totally satisfied	5	5	5	5	5	
Refused	89	89	89	89	89	
Don't know	99	99	99	99	99	
F1.4. How satisfied are you with the ease of working with [SOURCE] on things like ordering, billing, and other matters? <i>[One answer]</i>						
Totally unsatisfied	1	1	1		1	
Somewhat unsatisfied	2	2	2		2	
Neither unsatisfied nor satisfied	3	3	3		3	
Somewhat satisfied	4	4	4		4	
Totally satisfied	5	5	5		5	
Refused	89	89	89		89	
Don't know	99	99	99		99	
F1.5. How satisfied are you with the cost/affordability of irrigation water from [SOURCE]? <i>[One answer]</i>						
Totally unsatisfied	1	1	1		1	
Somewhat unsatisfied	2	2	2		2	
Neither unsatisfied nor satisfied	3	3	3		3	
Somewhat satisfied	4	4	4		4	
Totally satisfied	5	5	5		5	
Refused	89	89	89		89	
Don't know	99	99	99		99	
F1.6. How satisfied are you with the timely delivery of irrigation water from [SOURCE]? <i>[One answer]</i>						
Totally unsatisfied	1	1	1		1	
Somewhat unsatisfied	2	2	2		2	
Neither unsatisfied nor satisfied	3	3	3		3	
Somewhat satisfied	4	4	4		4	
Totally satisfied	5	5	5		5	

Refused	89	89	89		89	
Don't know	99	99	99		99	

**F 2.** How did your farm's irrigation water delivery service in 2013 compare with irrigation service provided in the 2012 agricultural season? *[One answer]*

Did not use irrigation in 2012, 2013, or both	1
Much worse	2
Somewhat worse	3
The same	4
Somewhat better	5
Much better	6
Refused	89
Don't know	99

**F 3.** Did your farm ever sign a water supply contract? *[Mark all that apply]*

Yes, I/we have had or currently have a contract with a WUA	1
Yes, I/we have had or currently have a contract with Apele Moldovei	2
Yes, I/we have had or currently have a contract with another organization	3
No	4
Refused	89
Don't know	99

**F 4.** Is there a water users' association (WUA) in your community? *[One answer]*

Yes	1	<i>Continue</i>
No	2	
Refused	89	<i>Skip to Section G</i>
Don't know	99	

**F 5.** Is your farm a member of a WUA? *[One answer]*

Yes	1	<i>Continue</i>
No	2	
Refused	89	<i>Skip to Section G</i>
Don't know	99	

**F 6.** What is your position in the WUA? *[One answer]*

Regular member	1
Sector representative	2
Executive staff	3
Administrative council member	4
Other administrative position	5
Refused	89
Don't know	99

**F 7.** How often does the WUA General Meeting take place? *[One answer]*

At least once a month	1
At least once a quarter	2
At least once every six months	3
At least once a year	4
Refused	89
Don't know	99

**F 8.** Out of the last 5 WUA General Meetings, how many did you attend? *[Enter number of meetings]*

<b>Enter number, must be ≤ 5</b>	
Refused	89
Don't know	99

**F 9.** Has your farm paid your WUA membership fees for the current period? *[One answer]*

Yes	1
No	2
Refused	89
Don't know	99

**F 10.** Has your farm paid your irrigation fees for the current period? *[One answer]*

Yes	1
No	2
Not applicable	88
Refused	89
Don't know	99

**F 11.** Please rate the degree to which you disagree or agree with the following statements on 5 point scale where: 1="strongly disagree", 3="neither agree nor disagree," and 5="strongly agree."  
*[One answer per row]*

	Strongly disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Strongly agree	Refused	Don't know
F11.1. Being part of a WUA is a real advantage to my farm business.	1	2	3	4	5	89	99
F11.2. The WUA management is transparent.	1	2	3	4	5	89	99
F11.3. The WUA is really active in organizing and working with farmers.	1	2	3	4	5	89	99
F11.4. Farmers in this area cooperate well.	1	2	3	4	5	89	99
F11.5. The WUA is advancing the interests of all members.	1	2	3	4	5	89	99
F11.6. The WUA membership fee is fair.	1	2	3	4	5	89	99
F11.7. The WUA irrigation fees are fair.	1	2	3	4	5	89	99



**G. AGRICULTURAL TRAININGS****G1.** Did you attend agricultural training in the previous 12 months? *[One answer]*

Yes	1	<i>Skip to G5</i>
No	2	<i>Continue</i>
Refused	89	
Don't know	99	

**G2.** Why didn't you attend training? *[Mark all that apply]*

I have not heard about any agricultural trainings in my area	1
Trainings were too far away	2
Trainings were too expensive	3
Trainings were too time-consuming	4
Training topics were too expensive to implement	5
Training topics were too advanced for me	6
Training topics were too simple for me	7
Trainings were focused on crops that are not of interest to me	8
Had pressing work/business to attend to	9
Had pressing social obligation	10
Someone else from my farm attended	11
Refused	89
Don't know	99

**G3.** Did someone else from your farm attend agricultural training in the previous 12 months? *[One answer]*

Yes	1	<i>Continue</i>
No	2	<i>Skip to Section H</i>
Refused	89	
Don't know	99	

**G4.** Who from your farm attended the **most recent** agricultural training during the previous 12 months?  
*[enter name and position of person]*

Name	----- —	<i>Continue to G5 with the training attendee. If the training attendee is not available to answer questions, please skip to Section H.</i>
Position	-----	
Refused	89	
Don't know	99	

I'd like to ask you some questions about the most recent training that you attended:

**G5.** When did the training occur? *[Interviewer: if the date is not in the previous 12 months, ask respondent if he/she attended a more recent training. If not, skip to Section H.]*

Enter month and year	____/____
	MM/YEAR
Refused	89
Don't know	99

**G6.** What was the focus of this training? *[Mark all that apply]*

New varieties	1
Crop profitability	2
New agricultural practices and modern technologies	3
Greenhouse building and design	4
Harvest and post-harvest practices	5
Production of seedlings / seeds	6
Use of irrigation	7
Market access	8
Use of chemicals and fertilizers	9
Cost analysis	10
Other (specify)	_____
Other (specify)	_____
Other (specify)	_____
Refused	89
Don't know	99

**G7.** On what crop or crops did this training focus? *[Mark all that apply; enter crop codes from Section C; if the training did not focus on a particular crop, enter 1]*

No specific crop	1
Tomatoes	2
Other vegetables	3
Apples	4
Stone fruit	5
Table grapes	6
Other <i>[enter crop code from Section C, if applicable]</i>	_____
Refused	89
Don't know	99

**G8.** Was this training provided by the ACED project (which is sponsored by USAID, MCA-Moldova, and MCC)? *[One answer]*

Yes	1	<b>Skip to G10</b>
No	2	
Refused	89	
Don't know	99	

**G9. Who provided the training? [Mark all that apply]**

Private provider	1
MAFI	2
Raion Department for Agriculture and Food	3
Extension Service provider (ACSA network)	4
International TA project	5
Other (specify)	_____
Other (specify)	_____
Other (specify)	_____
Refused	89
Don't know	99

**G10. How many other staff members from your farm participated in this training (with you)? [Do not include yourself in the count]**

Insert number	_____
Refused	89
Don't know	99

**G11. In what city/village and raion was the training conducted? [Complete each row]**

Country: [if not Moldova]	_____
Raion:	_____
City / village:	_____
Refused	89
Don't know	99

*[Interviewer, if the primary respondent did not respond to G5-G11, please thank training participant for his/her time and continue interview with primary respondent (farm operator).]*

**H. CROP AND POST HARVESTING PRACTICES/EQUIPMENT**

Now I'd like to ask about practices or equipment that you or others may have used in producing crops on your farm.

**APPLE PRACTICES**

**H1.** Did the farm cultivate apples in the 2013 agricultural season? [*One answer; interviewer: check C8.A + C8.B + C8.C to determine if the respondent cultivates apples*]

Yes	1	<i>Continue</i>
No	2	<i>Skip to H7</i>
Refused	89	
Don't know	99	

**H2. Show card H2** During the past agricultural season (2013), did you or others apply/utilize *this practice or equipment on your farm?* [*Read out practices and equipment one by one*]

Apple Practices and Equipment	Yes	No	Refused	Don't know
1. implementing intensive orchard systems	1	2	89	99
2. weather stations	1	2	89	99
3. drip irrigation	1	2	89	99
4. water testing	1	2	89	99
5. fertigation	1	2	89	99
6. anti-hail net	1	2	89	99
7. frost management	1	2	89	99
8. integrated disease and pest management	1	2	89	99
9. fruit thinning to increase size of apples	1	2	89	99
10. picking bags	1	2	89	99
11. harvesting platforms	1	2	89	99
12. wood containers for harvest	1	2	89	99
13. plastic containers for harvest	1	2	89	99
14. color charts	1	2	89	99
15. penetrometers	1	2	89	99
16. cold storage ( <i>if not using, skip to 20</i> )	1	2	89	99
17. humidity or temperature control in storage areas	1	2	89	99
18. putting crates or boxes on pallets or using corner boards	1	2	89	99
19. ethylene management (SmartFresh)	1	2	89	99
20. grading and sorting equipment	1	2	89	99
21. humidity or temperature control in packing areas	1	2	89	99
22. modified atmosphere/modified humidity packaging	1	2	89	99
23. tray liners	1	2	89	99
24. open trays	1	2	89	99
25. punnets	1	2	89	99
26. returnable plastic crates	1	2	89	99
27. pre-cooling	1	2	89	99

**H3.** Check for apple practices (H2): [*One answer*]

At least one practice was used according to H2	1	<i>Continue</i>
None of the practices were used according to H2	2	<i>Skip to H6</i>

**H4.** From whom or what did you learn about these practices or equipment? Please select the two main sources of information. *[Mark up to two]*

Family member	1
Education (diploma)	2
Training session	3
Expert consultant	4
Neighbor	5
Other farmer	6
Mass media	7
Other	8
Refused	89
Don't know	99

**H5.** During the past agricultural season (2013), on how many hectares did you apply at least one of these apple practices? *[Enter ha]*

Enter Ha	_____ ha
Refused	89
Don't know	99

**H6.** There were apple production-related practices / equipment listed earlier that you never used. Considering all of the practices and equipment that you did not use, what were the two main reasons that you did not use those practices or equipment during the past agricultural season (2013)? *[Mark up to two]*

Did not know about practice/equipment	1
Costly	2
Doesn't seem useful	3
Too advanced	4
Takes too much time	5
Used in previous season (if practice is not yearly)	6
Other	7
Refused	89
Don't know	99

**TABLE GRAPE PRACTICES**

**H7.** Did the farm cultivate table grapes in the 2013 agricultural season? [*One answer; interviewer: check C8.A + C8.B + C8.C to determine if the respondent cultivates table grapes*]

Yes	1	<i>Continue</i>
No	2	<i>Skip to H13</i>
Refused	89	
Don't know	99	

**H8. Show card H8** During the past agricultural season (2013), did you or others apply/utilize *this practice or equipment on your farm*? [*Read out practices and equipment one by one*]

Table Grape Practices and Equipment	Yes	No	Refused	Don't know
1. cluster thinning	1	2	89	99
2. bark girdling to increase grape size	1	2	89	99
3. growth stimulators	1	2	89	99
4. introducing new varieties	1	2	89	99
5. weather stations	1	2	89	99
6. drip irrigation	1	2	89	99
7. water testing; in other words, testing pH and/or salt concentration in water used for irrigation	1	2	89	99
8. fertigation (use of fertilizers dissolved in water in drip irrigation)	1	2	89	99
9. anti-hail net	1	2	89	99
10. frost management	1	2	89	99
11. integrated disease and pest management	1	2	89	99
12. harvesting platforms	1	2	89	99
13. putting crates or boxes on pallets or using corner boards for harvesting	1	2	89	99
14. cold storage ( <i>if not using, skip to 19</i> )	1	2	89	99
15. humidity or temperature control in storage areas	1	2	89	99
16. inner packaging/storage (sulfur pads)	1	2	89	99
17. room cooling (forced-air)	1	2	89	99
18. pre-cooling	1	2	89	99
19. putting crates or boxes on pallets or using corner boards for packing	1	2	89	99
20. modified atmosphere/modified humidity packaging	1	2	89	99
21. water-absorbent pads	1	2	89	99
22. open trays	1	2	89	99
23. punnets	1	2	89	99
24. returnable plastic crates	1	2	89	99

**H9.** Check for table grape practices (H8): [*One answer*]

At least one practice was used according to H8	1	<i>Continue</i>
None of the practices were used according to H8	2	<i>Skip to H12</i>

**H10.** From whom or what did you learn about these practices or equipment? Please select the two main sources of information. *[Mark up to two]*

Family member	1
Education (diploma)	2
Training session	3
Expert consultant	4
Neighbor	5
Other farmer	6
Mass media	7
Other	8
Refused	89
Don't know	99

**H11.** During the past agricultural season (2013), on how many hectares did you apply at least one of these table grape practices? *[Enter ha]*

Enter Ha	_____ ha
Refused	89
Don't know	99

**H12.** There were table grape production-related practices / equipment listed earlier that you never used. Considering all of the practices and equipment that you did not use, what were the two main reasons that you did not use those practices or equipment during the past agricultural season (2013)?

*[Mark up to two]*

Did not know about practice/equipment	1
Costly	2
Doesn't seem useful	3
Too advanced	4
Takes too much time	5
Used in previous season (if practice is not yearly)	6
Other	7
Refused	89
Don't know	99

**TOMATO AND TOMATO SEEDLING PRACTICES**

**H13.** Did the farm cultivate tomatoes or tomato seedlings in the 2013 agricultural season? *[One answer; interviewer: check C8.A + C8.B + C8.C to determine if the respondent cultivates tomatoes or tomato seedlings]*

Yes	1	<b>Continue</b>
No	2	
Refused	89	
Don't know	99	

**H14. Show card H14** During the past agricultural season (2013), did you or others apply/utilize **this practice or equipment on your farm?** *[Read out practices and equipment one by one]*

<b>Tomato and Tomato Seedling Practices and Equipment</b>	Yes	No	Refused	Don't know
1. seedling production ( <i>if not, skip to 12</i> )	1	2	89	99
2. integrated disease and pest management for seedling production	1	2	89	99
3. micro climate control systems in greenhouses (ventilation, use of double layer film, heating) for seedling production	1	2	89	99
4. introducing new varieties/hybrids for seedling production	1	2	89	99
5. pallets for seedling production trays	1	2	89	99
6. peat for seedling production	1	2	89	99
7. drip irrigation for seedling production	1	2	89	99
8. water testing for seedling production; in other words, testing pH and/or salt concentration in water used for irrigation	1	2	89	99
9. fertigation (use of fertilizers dissolved in water in drip irrigation) for seedling production	1	2	89	99
10. supplementary illumination for seedling production	1	2	89	99
11. energy saving techniques and equipment for seedling production such as double tunnels and biomass heating generators	1	2	89	99
12. bumblebees or other techniques to increase tomato pollination in greenhouses	1	2	89	99
13. micro climate control systems in greenhouses (ventilation, use of double layer film, heating) for vegetable production	1	2	89	99
14. introducing new varieties/hybrids for vegetable production	1	2	89	99
15. mulching for vegetable production	1	2	89	99
16. drip irrigation for vegetable production	1	2	89	99
17. water testing for vegetable production; in other words, testing pH and/or salt concentration in water used for irrigation	1	2	89	99
18. fertigation for vegetable production (use of fertilizers dissolved in water in drip irrigation)	1	2	89	99
19. energy saving techniques and equipment for vegetable production such as double layer or biomass heating generators	1	2	89	99
20. growth stimulators for vegetable production	1	2	89	99
21. support systems for vegetable production	1	2	89	99
22. harvesting platform	1	2	89	99
23. plastic boxes	1	2	89	99
24. putting crates or boxes on pallets or using corner boards	1	2	89	99
25. tray liners	1	2	89	99
26. water-absorbent pads	1	2	89	99
27. open trays	1	2	89	99
28. punnets	1	2	89	99
29. returnable plastic crates	1	2	89	99



**H15.** Check for tomato and tomato seedling practices (H14): *[One answer]*

At least one practice was used according to H14	1	<b><i>Continue</i></b>
None of the practices were used according to H14	2	<b><i>Skip to H18</i></b>

**H16.** From whom or what did you learn about these practices or equipment? Please select the two main sources of information. *[Mark up to two]*

Family member	1
Education (diploma)	2
Training session	3
Expert consultant	4
Neighbor	5
Other farmer	6
Mass media	7
Other	8
Refused	89
Don't know	99

**H17.** During the past agricultural season (2013), on how many hectares did you apply at least one of these tomato and tomato seedling practices? *[Enter ha]*

Enter Ha	_____ ha
Refused	89
Don't know	99

**H18.** There were tomato and tomato seedling production-related practices / equipment listed earlier that you never used. Considering all of the practices and equipment that you did not use, what were the two main reasons that you did not use those practices or equipment during the past agricultural season (2013)? *[Mark up to two]*

Did not know about practice/equipment	1
Costly	2
Doesn't seem useful	3
Too advanced	4
Takes too much time	5
Used in previous season (if practice is not yearly)	6
Other	7
Refused	89
Don't know	99

**STONE FRUIT PRACTICES**

**H19.** Did the farm cultivate stone fruits in the 2013 agricultural season? *[One answer; interviewer: check C8.A + C8.B + C8.C to determine if the respondent cultivates stone fruits: sweet cherry, plum, peach, or apricot]*

Yes	1	<b>Continue</b>  <b>Skip to Section I</b>
No	2	
Refused	89	
Don't know	99	

**H20. Show card H20** During the past agricultural season (2013), did you or others apply/utilize **this practice or equipment on your farm?** *[Read out practices and equipment one by one]*

Stone Fruit Practices and Equipment	Yes	No	Refused	Don't know
1. intensive orchard systems; in other words, using new rootstocks, new cultivars, or tree support systems	1	2	89	99
2. weather stations	1	2	89	99
3. drip irrigation	1	2	89	99
4. water testing; in other words, testing pH and/or salt concentration in water used for irrigation	1	2	89	99
5. fertigation (use of fertilizers dissolved in water in drip irrigation)	1	2	89	99
6. anti-hail net	1	2	89	99
7. anti-rain nets	1	2	89	99
8. frost management	1	2	89	99
9. manual thinning	1	2	89	99
10. summer pruning	1	2	89	99
11. winter pruning	1	2	89	99
12. testing bud fertility	1	2	89	99
13. canopy training	1	2	89	99
14. horizontal lining of bearing branches	1	2	89	99
15. picking bags	1	2	89	99
16. cold storage <i>(if not using, skip to 21)</i>	1	2	89	99
17. humidity or temperature control in storage areas	1	2	89	99
18. putting crates or boxes on pallets or using corner boards	1	2	89	99
19. ethylene management (SmartFresh)	1	2	89	99
20. implementing controlled atmosphere in storage	1	2	89	99
21. temperature or humidity control in packing areas	1	2	89	99
22. modified atmosphere/modified humidity packaging	1	2	89	99
23. tray liners	1	2	89	99
24. open trays	1	2	89	99
25. punnets	1	2	89	99
26. pre-cooling	1	2	89	99

**H21.** Check for stone fruit practices (H20): *[One answer]*

At least one practice was used according to H20	1	<b>Continue</b>
None of the practices were used according to H20	2	<b>Skip to H24</b>

**H22.** From whom or what did you learn about these practices or equipment? Please select the two main

sources of information. *[Mark up to two]*

Family member	1
Education (diploma)	2
Training session	3
Expert consultant	4
Neighbor	5
Other farmer	6
Mass media	7
Other	8
Refused	89
Don't know	99

**H23.** During the past agricultural season (2013), on how many hectares did you apply at least one of these stone fruit practices? *[Enter ha]*

Enter Ha	_____ ha
Refused	89
Don't know	99

**H24.** There were stone fruit production-related practices / equipment listed earlier that you never used. Considering all of the practices and equipment that you did not use, what were the two main reasons that you did not use those practices or equipment during the past agricultural season (2013)? *[Mark up to two]*

Did not know about practice/equipment	1
Costly	2
Doesn't seem useful	3
Too advanced	4
Takes too much time	5
Used in previous season (if practice is not yearly)	6
Other	7
Refused	89
Don't know	99

**I. CREDIT**

**I 1.** Have you/your farm applied for a loan to finance the farm's operations from a bank, a micro-credit organization, a savings and credit association, or a government or donor sponsored credit program in the past year? *[One answer]*

Yes	1	<i>Skip to I3</i>
No	2	<i>Continue</i>
Refused	89	
Don't know	99	

**I 2.** What was the main reason for not applying? *[One answer]*

Did not think I/we would qualify for a loan due to insufficient collateral	1	<i>Skip to page 43</i>
Did not think I/we would qualify for a loan due to credit history	2	
Did not think I/we would qualify for a loan for other reasons	3	
The terms of loans available are unfavorable to me/us	4	
Afraid I/we would not be able to pay back the loan/did not wish to get into debt/too risky to take on debt	5	
I/we did not know of available loans in my/our area/not sure of application process	6	
I/we were able to borrow what was needed from family/friends	7	
I/we did not need a loan	8	
Other (specify) _____		
Refused	89	
Don't know	99	

**I 3.** Have any of these loan applications been approved? *[One answer]*

Yes, at least one was approved	1	<i>Continue</i>
No, none were approved and none are pending	2	<i>Skip to I12</i>
At least one is pending but none were approved	3	
Refused	89	
Don't know	99	

**Starting with the most recent loan approved, please tell me:**

	Loan 1	Loan 2	Loan 3
<b>I 4. When was the loan approved? [One answer; if earlier than January 2013, skip to next section]</b>			
Enter MM /YYYY	-- / --	-- / --	-- / --
Refused	89	89	89
Don't know	99	99	99
<b>I 5. What was the purpose of the loan? What was the loan for? [Mark all that apply]</b>			
Purchasing land	1	1	1
Purchasing inputs (for example, fertilizer/pesticides/improved seeds)	2	2	2
Paying for irrigation water	3	3	3
Introducing new crops	4	4	4
Purchasing livestock	5	5	5
Purchasing irrigation equipment	6	6	6
Purchasing other farm equipment (for example, a tractor)	7	7	7
Improvements to existing buildings or infrastructure	8	8	8
Constructing a greenhouse	9	9	9
Constructing new buildings or infrastructure for post-harvest activities (e.g., cold storage, packaging, sorting, etc.)	10	10	10
Constructing new buildings or infrastructure for other purposes	11	11	11
Refinancing/covering other loans or debts	12	12	12
Other	13	13	13
Refused	89	89	89
Don't know	99	99	99
<b>I 6. What was the source of credit? [One answer]</b>			
RISP	1	1	1
IFAD credit line	2	2	2
Millennium Challenge Account-Moldova credit line/Access to Agricultural Finance (AAF) activity	3	3	3
Other donor credit line	4	4	4
Private or commercial bank's own resources	5	5	5
Micro-credit organization	6	6	6
Savings and credit association	7	7	7
Other (specify)	--	--	--
Refused	89	89	89
Don't know	99	99	99
<b>I 7. What was the currency of the loan? [One answer]</b>			
EURO	1	1	1
MDL	2	2	2
USD	3	3	3
Refused	89	89	89
Don't know	99	99	99

	Loan 1	Loan 2	Loan 3
<b>I 8. What was the initial size of loan? [One answer; in thousands; use the same currency as in I7]</b>			
Enter amount in thousands	_____	_____	_____
Refused	89	89	89
Don't know	99	99	99
<b>I 9. What was the assessed value of collateral? [One answer; in thousands; use the same currency as in I7]</b>			
Enter amount in thousands	_____	_____	_____
Refused	89	89	89
Don't know	99	99	99
<b>I 10. What was the term of loan? [One answer]</b>			
Enter number of months	_____	_____	_____
Refused	89	89	89
Don't know	99	99	99
<b>I 11. What was the interest rate of the loan? [One answer]</b>			
Enter interest rate / percent	_____ %	_____ %	_____ %
Refused	89	89	89
Don't know	99	99	99

**I 12. If your farm applied for a loan to finance the farm's operations in the past year and was rejected, what do you think was the main reason for rejection? [One answer]**

No applications were rejected	1
Poor business plan or inability to demonstrate income	2
Insufficient collateral	3
Discrimination against farmers/people like me/us	4
Bad credit history	5
Repayment too risky	6
I/we do not have crop insurance	7
The loan I/we applied for was too small to interest the lender	8
Other (specify) _____	
Refused	89
Don't know	99

Questionnaire #

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**Explain to the respondent that this is a longitudinal survey and that we will probably need to contact him / her in the future for participation. Explain that names and contact information will be kept confidential.**

<b>Reenter farm operator code</b>	
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		<b>Respondent</b>	<b>Training attendee (if applicable)</b>	<b>Alternative contact person</b>	
<b>1</b>	<b>Name / Surname</b>				
<b>2</b>	<b>Relation to respondent</b>			<b>Other farm member</b>	<b>1</b>
				<b>Friend</b>	<b>2</b>
				<b>Neighbor</b>	<b>3</b>
				<b>Other</b>	<b>4</b>
<b>3</b>	<b>Telephone number</b>				
<b>4</b>	<b>Alternative telephone number</b>				
<b>5</b>	<b>Address</b>	<b>CIS area (if applicable)</b>			
		<b>Region</b>			
		<b>Raion</b>			
		<b>Primaria</b>			
		<b>Settlement (village / town)</b>			
		<b>Detailed address</b>			

**To be completed after the interview (Q7-Q12):**

	<b>Name</b>	<b>ID</b>
<b>Q 7.</b> Rayon Coordinator (in capitals)		
<b>Q 8.</b> Field Manager (in capitals)		
<b>Q 9.</b> Revision Specialist (in capitals)		
<b>Q 10.</b> Data entry clerk #1 (in capitals)		
<b>Q 11.</b> Data entry clerk #2 (in capitals)		

**Q 12.** Quality control result:

Quality control procedure was conducted	1	Date: [ _ ] [ _ ] [ _ _ _ ]
Quality control procedure was not conducted	2	





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