



***DATA COMPLETION FINAL REPORT***  
**FARMING PRACTICES SURVEY 2007-2008**

**ANNEX 1**  
**SURVEY INSTRUMENTS**

**Questionnaire**  
**Card 1**  
**Card 2**  
**Card 3**

**YEREVAN 2008**

**FARMING PRACTICES SURVEY**

| Marz Code | Cluster/settlement code | Respondent current number | Interviewer Code | Questionnaire is valid<br>Coordinator's signature |
|-----------|-------------------------|---------------------------|------------------|---|
|           |                         |                           |                  |   |

Hello, my name is **(First name, last name)**: I represent AREG SCYA NGO, which implements Farming practices survey in the RA marzes by the order of "Millennium Challenge Account-Armenia". The survey data will be used only in a summarized form and will greatly contribute to the elaboration of projects directed to the agricultural development in Armenia. Your reliable answers are very important for us.

Name of respondent

\_\_\_\_\_

First Name, Middle Name, Last Name

Contacts of the respondent (telephone) \_\_\_\_\_

Start time \_\_\_\_\_

End time \_\_\_\_\_

## HOUSEHOLD DESCRIPTION

### A. LAND AND LIVESTOCK

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

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

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

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

**A3. Do you have a kitchen plot?**

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

**A4. How big is the plot?**

\_\_\_\_\_ sq.m

**A5. How do you water kitchen plot?**

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

**A6. Do you have livestock?**

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

**A7. Information on households' livestock**

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

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

**B1. Crop production and utilization in the field (including kitchen plot).**

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

66. N/A

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

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

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

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

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

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

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

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

**C. WATER USE**

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

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

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

1. Yes
2. No

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

1. Yes
2. No

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

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

**6. None of mentioned (then=>C7)**

|  |  |  |  |  |
|--|--|--|--|--|
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

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

1. Yes
2. No

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

1. Yes
2. No

**C7. Did you incorporate any agricultural practices that changed the way you use fertilizers or pesticides?**

1. Yes
2. No

**D. FARMING EXPENDITURES**

**D1.**

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

**E. Trainings**

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

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

**E2. Did you attend any of the trainings?**

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

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

1. Classroom training
2. Farm demonstration training
3. Video or computer in the classroom
4. Exchange of experience
5. Some other kind of training (describe)\_\_\_\_\_

**E4. Did you receive a certificate at the end of training?**

1. Yes
2. No

**F. Agriculture Equipment**

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

| No | Equipment             | Check if<br>Yes owner | Check if<br>Yes rent |
|----|-----------------------|-----------------------|----------------------|
|    |                       | 1                     | 2                    |
| 1  | Trucks and Tractors   |                       |                      |
| 2  | Combine               |                       |                      |
| 3  | Seed planter          |                       |                      |
| 4  | Sprayer               |                       |                      |
| 5  | Artesian well or tank |                       |                      |

55. I don't have it

**F2. Did you take credit during the last season?**

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

**F3. From whom did you receive the credit?**

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

**G. CONSUMPTION AND MONETARY INCOME OF HH MEMBERS**

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

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

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

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

**H1. I would like to make a complete list of all the members of your household, both present and absent. By saying a household I mean people who usually live together, share the same housekeeping and have the same budget. At first, I would like to write down the name of the head of the household, i.e. the person adopting primary decisions, then his spouse, their children and then other members of the household. Do not include the visitors.**

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

*Questions from 5 to 9 should be asked for farmer, spouse and their children over 16 only.*

| No of h/h member | Household members and their relationship to the head of h/h  | Gender               | Age (write down number) | If any of the household members who usually live here are currently absent, indicate by marking "1" in their row | During the last harvest, which people in the household were actively working in agriculture as their main activity? | Did any of your HH members have any paid work during the last month | How much was HH members' salary for the mentioned job in AMD? | Do the HH members receive any in-kind (non financial) payment? | What is the level of education completed? (from 16 years of age)   |
|------------------|--|----------------------|-------------------------|--|---|---|---|--|--|
|                  | 1.head<br>2.spouse<br>3.son/daughter<br>4.son in law/ daughter in law<br>5.grandchild<br>6.father/mother of head / spouse<br>7.other relatives of the head<br>8. persons that do not have any relationship to the head | 1. male<br>2. female |                         | 1. Yes<br>2. No  | 1. Yes<br>2. No   | 1. Yes<br>2. No   | 1. Yes<br>2. No   | 1. Yes<br>2. No  | 1.non-educated<br>2.incomplete primary<br>3.primary<br>4.incomplete general secondary<br>5.general secondary<br>6.incomplete secondary<br>7.secondary (full)<br>8.secondary vocational<br>9.incomplete higher<br>10. higher<br>11. post-graduate |
|                  | 1  | 2                    | 3                       | 4  | 5   | 6   | 7   | 8  | 9  |
| 1                |  |                      |                         |  |   |   |   |  |  |
| 2                |  |                      |                         |  |   |   |   |  |  |
| 3                |  |                      |                         |  |   |   |   |  |  |
| 4                |  |                      |                         |  |   |   |   |  |  |
| 5                |  |                      |                         |  |   |   |   |  |  |
| 6                |  |                      |                         |  |   |   |   |  |  |
| 7                |  |                      |                         |  |   |   |   |  |  |
| 8                |  |                      |                         |  |   |   |   |  |  |
| 9                |  |                      |                         |  |   |   |   |  |  |
| 10               |  |                      |                         |  |   |   |   |  |  |

**Thank you for cooperation.**

## CARD 1

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

## Card 2

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

## **CARD 3**

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