**Project:** Reducing the use of hazardous chemicals in developing countries: potential of implementing safer chemicals including non-chemical alternatives - tools for Georgia and the EECCA region

Association “SEMA”

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**Questionnaire**

1. what information do you have about different chemical means of plant protection (pesticides)?

2. What kind of mineral fertilizers do you use?
   - □ NPK
   - □ NH4
   - □ Phosphor
   - □ other (please specify)

3. Do you use pesticides/biocides at:
   - □ work
   - □ home (house or garden)
   - □ farm

4. If you do not use pesticides, then how do you control pests or weeds
   - In the garden ____________
   - At home ____________
   - In the farm ____________

5. What kind of chemical means of plant protection (pesticides) and for animals have you used in 2010, for which crops, pests/diseases, animals, and how much?

<table>
<thead>
<tr>
<th>Product/trade name</th>
<th>Where did you buy it?</th>
<th>Dose applied/ha/application</th>
<th>Frequency Weekly/monthly</th>
<th>Which crop/animal being treated</th>
<th>Target/pest weed/disease</th>
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6. If there is pesticide left over, where is it disposed?
   - □ In yard
   - □ in canalization
   - □ in solid waste disposal
   - □ other (please specify):

7. Where is the equipment washed?
   - □ At well at home
   - □ Bathroom in the house
   - □ Outside the yard
   - □ Nearby River/lake
   - □ Other (please specify)
8. Where does the residue from the washed equipment go?
   □ In canalization   □ in Yard   □ in River   □ Other (please specify)

9. How many years have you been using pesticides?

11. Do you wear protective clothing when applying pesticides? _
   □ Yes   □ No

   If no, please pick one: _
   □ too expensive
   □ not available
   □ uncomfortable
   □ other (specify):

   If yes, check one or more of the following:
   □ gloves
   □ overalls
   □ eye glasses
   □ respirator - how often do you change it? _
   □ face mask
   □ boots/shoes
   □ long-sleeve shirt
   □ long pants
   □ other (specify):

12. Are there washing facilities (for your hands and body) where you apply the pesticides? _
   □ Yes   □ No

13. How did you apply them? Do you think this is the right manner? _
   □ with hand pump   □ with tractor   □ with brush
   □ this is right   □ this is not right

14. How do you store pesticides? Do you think this is the right manner? _
   □ In their original containers   □ In my own containers   □ other (please specify)
   □ in my storage room   □ in the house   □ outside   □ other (Please specify)

15. Are the pesticide containers used for other purposes afterwards? _
   □ Yes   □ No

   If yes, what? _
   If yes, are you aware that you should not do this? _
   □ Yes   □ No

16. How are the containers or packages disposed of? _
   □ Returned to company/distributor
   □ Thrown in open field
   □ Buried
   □ Burnt
   □ Put in rubbish/trash
   □ Other (specify)
17. From whom you receive consultations about the right use and storage of pesticides?

- From retailer
- From consultancy services
- From neighbors
- Others (please specify)

18. Are there agricultural consultation services in your district (city, village)?

- Yes
- No

19. Are the service or advices by these consultation services available to you?

- Yes
- No
- partly (explain)

20. Do you have any information about the old storehouses or landfills of chemical pesticides? Where are they?

- Yes
- No

Location:

21. Do you have any information about the kinds and types of pesticides stored (either now or in the past) in the storehouse (on the landfill)?

- Yes
- No
- partly (explain)

22. Do you think these storehouses are/were properly protected?

- Yes
- No

23. In your opinion, how harmful the chemical (synthetic) pesticides are for the environment and health? If yes, please specify

- Not harmful
- moderately harmful
- Very harmful

Specify if harmful:

24. When using pesticides or being exposed to them have you experienced (check one or more of the following):

- Dizziness
- Headache
- Blurred vision
- Excessive sweating
- Hand tremor
- Convulsion Staggerring
- Narrow pupils/miosis
- Excessive salivation
- Nausea/vomiting
- Sleeplessness/insomnia
- Difficulty breathing
- Skin rashes
- Diarrhoea
- Irregular heartbeat
- Other (specify)

25. If pesticides are used, who of the family takes the decision on the usage of the pesticides?

- Head of the family
- His wife
- His son
- Other, who?

26. Who carries out the application of the chemical/synthetic pesticides?

- Head of the family
- His wife
- His son
- Other, who?
25. Have you ever heard about alternative to synthetic pesticides
   □ bio pesticides (prepared out of plants)
   □ Organic farming
   □ Crop rotation
   □ Cultivating crop mixtures

26. Do you have information about pesticides prepared out of plants?
   □ yes    □ no
   If yes, please specify:

27. Have you ever used them and if yes, for which crop, for which pests or diseases?

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28. Are bio-pesticides available to you and from where?
   □ yes    □ no
   If yes, from where do you obtain bio-pesticides?
   □ From local farmer service center □ From Tbilisi □ Other (specify)

29. What do you think about substituting the chemical pesticides with bio-pesticides?
   □ Good    □ maybe    □ No way    □ Don’t know

30. Do you have information about organic farming?
   □ Yes    □ No
   If yes, explain what does organic farming mean?
   □ no chemical fertilizers
   □ no chemical pesticides
   □ composting
   □ crop rotation
   □ intercropping
   □ other (please specify)

32. How many hectar do you cultivate?

31. Your opinion, wishes and advice:
Beso Kalandadze,
Association “SEMA”