



GENDER-RESPONSIVE NEEDS ASSESSMENT FOR MECHANIZATION

Questionnaire

About the questionnaire

The objective of the questionnaire is to guide the selection and promotion of mechanization that responds to the needs of women farmers for their benefit and empowerment. The information compiled can build interventions that reduce women's drudgery, increase labour productivity, and create income and business opportunities through the provision of mechanization services in rural communities.

This questionnaire allows for the collection of data to perform a gender-responsive needs assessment for mechanization. There are 35 questions divided into five modules:

- personal information;
- land, crop, value chain and division of work;
- workload;
- access to and constraints in adopting agricultural mechanization; and
- mechanization services.

This questionnaire was developed in the framework of a Food and Agriculture Organization of the United Nations (FAO) project targeting women and youth on "Technical support for sustainable agricultural mechanization of smallholder farms for enhancing agricultural productivity and production, and reducing drudgery of women and young farmers." However, it can be used to assess both women and men's needs, constraints and preferences.

Why do we carry out a gender-responsive needs assessment for mechanization?

- Gender dynamics and social norms determine technology access and use.
- Even though no role is necessarily exclusively performed by just women or men, the traditional division of labour tends to assign specific responsibilities along value chains to women and others to men.
- Women and men have different technology and mechanization needs. These needs do not always determine the choice of machines and equipment.
- Women tend to be more affected by the drudgery of manual work (hence work burden and time poverty). At the same time, men often carry out tasks that are supported by technology.
- There is a need to identify critical gender gaps and constraints in access to local institutions and organizations that determine technology use and management.
- There is a need to identify critical gender gaps and constraints in access to key formal and informal services such as information, repair and maintenance, training, financial and business development services, etc.

Target respondents

The questionnaire respondents will be women farmers living in the targeted communities of the project or programme. The criteria for the selection of the respondents will vary depending on the local context. Some criteria can be land size, topography (flatland, mountain), ethnicity, religion, and so on. In the case that a value chain with the potential to benefit women has been identified, the women involved in this value chain will be targeted.

Method of reaching target respondents

Face-to-face and individual interviews are the preferred methods of reaching the target respondents. If possible, this questionnaire should be conducted in the absence of spouses, tutors, etc.

This questionnaire takes between 30-45 minutes to conduct. It can be adapted to specific value chains (question 15 and 16).

Personal Information

- 1 What is your name? _____
- 2 What is your village name? _____
- 3 What is your district name? *(to be adapted to national administrative divisions)*

- 4 What is your age? *(to be adapted to national youth definition)*

Less than 40 years old	41-65 years old	More than 65 years old
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- 5 Is your household:

Male-headed	Female-headed (married)	Female-headed (widow/unmarried)
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- 6 Number of household members _____
- 7 Are you a member of:

Cooperative	Farmer group	Neither
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Land, crop, value chain(s) and division of work

- 8 What is the total land size that you farm *(for all crops)*

<input type="checkbox"/> Less than 0.5 hectare	<input type="checkbox"/> Between 0.5-1 hectare	<input type="checkbox"/> Between 1-3 hectare	<input type="checkbox"/> More than 3 hectare
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- 9 Is the land farm fragmented in small plots? Yes No
- 10 If yes, what is the average size of the plots? *{specify the unit}*

- 11 Do you have terraces on your land farm? Yes No
- 12 If yes, what is the average width of the terraces? *{specify the unit}*

- 13 What is your land ownership/tenure? Owned by me
 Owned by husband/other male relatives
 Jointly owned (by me + husband/ relatives)
 No ownership, working on lease
 No ownership, working with contract
 No ownership, share cropping
 Other (please specify below)

14 If “**Other**”, please specify _____

- 15 What are the three (3) most important crops or products for your household’s livelihood?
 1: _____
 2: _____
 3: _____

- 16 Who performs the following tasks for the {crop selected in the previous question}?
(if some of these activities are not performed on your farm, select N/A):

		Men only / mostly men	Men and women equally	Women only / mostly women	N/A
Production	Land Preparation and maintenance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Planting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Fertilizing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Weeding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Applying pesticides/ herbicides	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Harvesting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Purchasing of inputs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Post-harvest	Drying / Dehydrating	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Threshing/Shelling/pulping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Cleaning/Winnowing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Milling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Storing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Parboiling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Oil / juice extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Grinding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Collection and Transportation (including: transporting within the farm, to and from farm to collection centre/milling/ parboiling /storing/market)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Packaging and Marketing (figuring out prices, negotiation, selling)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

17 Who performs the following tasks in your household?
 (if some of these activities are not performed on your farm, select N/A):

		Men only / mostly men	Men and women equally	Women only / mostly women	N/A
Household Task	Child and elderly care	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Cooking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Cleaning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Water collection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Firewood collection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Workload

18 Among the tasks listed in question 16, rank the four that are most physically demanding for you; 1 being the most demanding and 4 being the least. *(select the operations from previous question)*

1: _____
 2: _____
 3: _____
 4: _____

19 Work burden perceptions

	I feel I spend less time than what I want or need on this activity	I feel I spend adequate time on this	I feel I spend too much time on this activity
Household chores	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Agriculture work	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Leisure/ Personal time (relaxing activities, time with friends, hobbies, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

20 Have you found the opportunity to discuss your workload? *(multiple-choice)*

Yes, with the adult men from my family
 Yes, with other members of my family
 Yes, within my community (help groups, women groups, religious groups, political groups)
 Yes, with a member of the association/farmer group cooperative I belong to
 Yes, Other
 No

21 If "Other" please specify _____

22 Did you identify any solutions in recent years to reduce the workload? *(multiple-choice)*

Sharing of household tasks
 Changes/sharing of tasks at field level
 Adopting machines/equipment/tools (please specify below)
 No
 Other (please specify below)

23 In case you selected the option "adopting machines/equipment/tools" please specify which ones _____

24 If "Other" please specify _____

Access to and constraints in adopting agricultural mechanization

25 What machines and equipment do you use for farming and post-harvest operations?

What machines and equipment are available in your community or nearby but that you do not use?

(please mention not only tractors or power tillers but also threshers, shellers, dyers, pumps, if available)

List the ones you use (by operating them and/or renting services and/or borrowing from others)	List the ones that are available, but you do not use
- _____	- _____
- _____	- _____
- _____	- _____
- _____	- _____
- _____	- _____
- _____	- _____
- _____	- _____
- _____	- _____
- _____	- _____
- _____	- _____

26 What are your constraints in using available machines/equipment/tools?
(select all the relevant)

Budget	<input type="checkbox"/> Lack of money in hand available for renting or buying
	<input type="checkbox"/> No payback/in-kind option for renting (informal credit)
	<input type="checkbox"/> Lack of access to credit for renting or buying
Technical issues	<input type="checkbox"/> Size (height) and weight of machine/equipment/tools
	<input type="checkbox"/> Lack of training /capacity to operate the machine/equipment/tools
	<input type="checkbox"/> Machines are too old/low performing
Insufficient services	<input type="checkbox"/> I do not have access to maintenance and repair services
	<input type="checkbox"/> I am not a member of any local organization/group that would facilitate individual or collective access to mechanization
	<input type="checkbox"/> Service providers are too slow; machines and services are not available in time
	<input type="checkbox"/> Service providers are not interested in supporting me/my community
	<input type="checkbox"/> Service providers are not flexible to my needs (my home duties schedule, family caring responsibilities, mobility issues)
Personal and cultural issues	<input type="checkbox"/> I am not interested in using mechanization
	<input type="checkbox"/> I do not own the land or I don't make productive decisions
	<input type="checkbox"/> I do not think I would be able to use them correctly
	<input type="checkbox"/> Lack of time/too busy with my other work and family duties
	<input type="checkbox"/> I feel it is not appropriate/allowed since, in my community, men manage machinery

Lack of infrastructure/
isolation

My farm is too far/hard to reach for service providers/ or for me to get the machines

My field is too small or not adapted for operating machines on it

- 27 If you could choose, which are the main machines/equipment you would adopt to reduce the time it takes you to do the work (maximum 3)?
- 1: _____
- 2: _____
- 3: _____

Please rank from 1 to 3; 1 being the most preferred option and 3 being the least

- 28 Is there any other machinery/equipment that you think you may need to generate additional income?
- 1: _____
- 2: _____
- 3: _____

Please rank from 1 to 3; 1 being the most preferred option and 3 being the least.

- 29 How are decisions taken within your household on the tools and equipment needed for farming and on their management?
- My husband (or other male in the household) decides
We decide together
I decide
Other

- 30 If "**Other**" please specify
- _____

- 31 Do you rent or buy machines and/or equipment?
(multiple choice)
- Yes, Rent individually
Yes, Rent as a group
Yes, Buy
Yes, Buy as a group
Yes, Borrow for free/in exchange of.../subsidized
No

- 32 In case your household/group/cooperative owns/co-owns machines/equipment/tools, would you be interested in becoming a service provider and rent them to external users to make extra income?
(in case you don't own them leave it blank)
- Yes, I would be interested
 This is already the case; my family rents them
 This is already the case; my group/cooperative rents them
 No
 I don't make these kinds of decisions

Mechanization Services

33 How do you access mechanization services? Through...
(multiple choice)

- My husband/ father (other male of the household) arranges it for me
- Producer organization/self-help group
- Cooperative
- Individual service provider
- Public mechanization centre
- Other (Specify below)

34 If "Other" please specify _____

35 How far in km are the following services?

	Less than 2 km away	Between 2 and 5 km away	More than 5 km away
Maintenance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Repair	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spare parts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

***** Note to surveyor *****

- Record the farm location (GPS location)
- Please take pictures of the machine and/or equipment used by women in the household/group/cooperative, if available

For further information and queries

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