BASELINE SURVEY TOOL

Consent

*

We are very thankful that you have agreed to participate in this survey. We are working with CIMMYT - the wheat and maize improvement center. This survey will guide the research activities we have initiated in the district under the initiative "Transformational agroecology across food, land, and water systems".

The survey will take approximately one hour. We will leave our office's email address and phone number with you in case you wish to make a comment about the research, share additional information and insight, or to ask us some additional questions. no compensation will be provided for your time.

All information solicited from you, your household or your associates will be kept strictly confidential. We shall not in any way disclose you, your household or your associates personally in resultant documents, or data sharing processes. The overall research results will be published and shared with the general public and decision makers.

Participation in this discussion is voluntary. You have the opportunity to withdraw at any time or refuse any component(s) of the research without repercussion or penalty. Please let me know if you consent to being a part of this research by saying, "I consent to participating in this research".

Do you have any questions before we begin? You can ask questions at any point.

- ◯ OK

General information

Has this farm already been interviewed earlier or is this a new farm?

- ◯ Already interviewed
- ◯ New interviewee

District

- ◯ Mbire
- ◯ Murehwa

Ward

Village

Name of the head of the household

Is it still the head of the household today

- ◯ No
- ◉ Yes

Surname

_____

Firstname

_____

District

- Mbire
- Murehwa

Ward

Village

Surname

Firstname

Enter a date and time

yyyy-mm-dd hh:mm

Record your current location

latitude (x.y °)

longitude (x.y °)

altitude (m)

précision (m)

Head of the household

How old is the head of the household?

What is the sex of the head of the household?

- Male
- Female

What is the marrital status of the head of the household?

- ◯ Married
- ◯ Widow or widower
- ◯ Divorced
- ◯ Single

What is the type of marriage?

- ◯ Monogamous
- ◯ Polygamous

What is the education level of the head of the household?

- ◯ Primary level
- ◯ Secondary level
- ◯ Tertiary level
- ◯ Vocational school

Respondent

Is the respondent the head of the household?

- ◯ No
- ◉ Yes

What is the relation of the respondent to the head of the household?

- ◯ Spouse (Husband/Wife)
- ◯ Child (Son/Daughter)
- ◯ Grand-child
- ◯ Parend (Father/Mother)
- ◯ Other

Specify the relation to the head of the household

_____

How old is the repondent?

_____

What is the sex of the respondent?

- ◯ Male
- ◯ Female

What is the education level of the respondent?

- ( ) Primary level
- ( ) Secondary level
- ( ) Tertiary level
- ( ) Vocational school

Household composition

Total number of adult males aged 61 or more

_____

Total number of adult females aged 61 or more

_____

Total number of adult males aged 25-60

_____

Total number of adult females aged 25-60

_____

Total number of young males, aged 15-25

_____

Total number of young females, aged 15-25

_____

Total number of children and teens, aged 3-14

_____

Total number of infants of age 0 to 2

_____

Are there relatives outside the household who help financially?

- (•) No
- ( ) Yes

Are there relatives outside the household who depends on the household financially (e.g., elderly, sick)?

- (●) No
- ( ) Yes

Assets and land

Nb of tractors?

0

Nb of two-wheel tractors?

0

Nb of ploughs?

0

Nb of cultivators?

0

Nb of scotchcarts?

0

Nb of wheelbarows?

0

Nb of metal siloes (or other improved storage facility)?

0

Nb of solar panels?

0

Nb of biogas digester?

0

Nb of green houses?

0

Nb of motorized grinding mill?

0

Area (ha) of the farm cropped in the season 2021-22 (ha)?

_____

Area (ha) of the farm fallow in the season 2021-22 (ha)?

_____

Services and knowledge

Did you have access to credit in the last 12 months?

- (●) No
- ( ) Yes

Do you belong to a savings and loan group?

- (●) No
- ( ) Yes

What is your most important source of farming knowledge?

_____

1st choice

- ( ) Relatives
- ( ) Other farmers
- ( ) Government extension
- ( ) Development NGO
- ( ) Private sector

2nd choice

- ( ) Relatives
- ( ) Other farmers
- ( ) Government extension
- ( ) Development NGO
- ( ) Private sector

3rd choice

- ( ) Relatives
- ( ) Other farmers
- ( ) Government extension
- ( ) Development NGO
- ( ) Private sector

Main field crops

Area (ha) cropped in maize during the season 2021-22?

0

_____

Area (ha) cropped in sorghum during the season 2021-22?

0

_____

Area (ha) cropped in pearl millet during the season 2021-22?

0

Area (ha) cropped in finger millet during the season 2021-22?

0

Area (ha) cropped in sesame during the season 2021-22?

0

Area (ha) cropped in groundnut during the season 2021-22?

0

Area (ha) cropped in tobacco during the season 2021-22?

0

Area (ha) cropped in cotton during the season 2021-22?

0

Area (ha) cropped in irish potato during the season 2021-22?

0

Area (ha) cropped in sweet potato during the season 2021-22?

0

Area (ha) cropped in sunflower during the season 2021-22?

0

Area (ha) cropped in soybean during the season 2021-22?

0

Area (ha) cropped in common bean during the season 2021-22?

0

Area (ha) cropped in cowpea during the season 2021-22?

0

Area (ha) cropped in roundnut during the season 2021-22?

0

Other crops

Did you grow other main crops (not intercrops) during the season 2021-22?

- (●) No
- ( ) Yes

List other main crops you grew during the season 2021-22 (separated by commas)

Intercrops

Did you practice intercropping in some of your main crops during the season 2021-22?

- (●) No
- ( ) Yes

What were the intercrop species?

- [ ] Common bean
- [ ] Cowpea
- [ ] Groundnut
- [ ] Lablab
- [ ] Pigeonpea
- [ ] Mucuna / Velvet bean
- [ ] Pumpkin
- [ ] Watermelon
- [ ] Local cucumber
- [ ] Other

List other intercrops (separated by commas)

Individual garden

Do you have an individual garden?

- (●) No
- ( ) Yes

Area (ha) of the garden?

Is it a permanent or seasonal garden?

- ( ) Seasonal
- ( ) Permanent

What source of irrigation do you use for your garden?

- ( ) Well
- ( ) Stream, river, dam, lake
- ( ) Borehole
- ( ) Wetland

What type of irrigation do you use on your garden?

- ( ) Hand bucket
- ( ) Hose
- ( ) Flood irrigation
- ( ) Furrow irrigation
- ( ) Sprinkler irrigation
- ( ) Drip irrigation

What type of water extraction do you use on your garden?

- ( ) Manual
- ( ) Solar pump
- ( ) Diesel pump
- ( ) Petrol pump

Is your garden equiped with a water tank?

- (•) No
- ( ) Yes

Do you harvest rainwater?

- (•) No
- ( ) Yes

What crops did you grow in your garden over the last 12 months?

- [ ] Maize
- [ ] Common bean
- [ ] Sweet potato
- [ ] Tomato
- [ ] Onion
- [ ] Garlic
- [ ] Cabbage
- [ ] Rape
- [ ] Kovo
- [ ] Carrot
- [ ] Occra
- [ ] Watermelon
- [ ] Cucumber
- [ ] Butternut
- [ ] Sugar cane
- [ ] Banana
- [ ] Pawpaw
- [ ] Nartje
- [ ] Other

List other crops you grew in your individual garden (separated by commas)

_____

Quantity (kg) of basal fertilizer applied to the garden in the last 12 months?

_____

Quantity (kg) of topdressing fertilizer applied to the garden in the last 12 months?

_____

Quantity (kg) of manure applied to the garden in the last 12 months?

_____

Quantity (kg) of compost applied to the garden in the last 12 months?

_____

Community garden

Do you have access to a community garden?

- (●) No
- ( ) Yes

Area (ha) of the community garden you have access to?

_____

What crops did you grow in your section of the communal garden over the last 12 months?

- [ ] Maize
- [ ] Common bean
- [ ] Sweet potato
- [ ] Tomato
- [ ] Onion
- [ ] Garlic
- [ ] Cabbage
- [ ] Rape
- [ ] Kovo
- [ ] Carrot
- [ ] Occra
- [ ] Watermelon
- [ ] Cucumber
- [ ] Butternut
- [ ] Sugar cane
- [ ] Banana
- [ ] Pawpaw
- [ ] Nartje
- [ ] Other

List other crops you grew on your portion of community garden (separated by commas)

_____

Land clearance

Did you open up new fields (i.e., parcel of land never cultivated before) in the last 5 years?

- (●) No
- ( ) Yes

Did you open up new fields (i.e., parcel of land never cultivated before) during the season 2021-22?

- (•) No
- ( ) Yes

Area (ha) cleared during the season 2021-22?

_____

For what crop?

- [ ] Maize
- [ ] Sorghum
- [ ] Pearl Millet
- [ ] Finger Millet
- [ ] Sesame
- [ ] Groundnut
- [ ] Tobacco
- [ ] Cotton
- [ ] Irishpotato
- [ ] Sweetpotato
- [ ] Sunflower
- [ ] Soybean
- [ ] Common bean
- [ ] Cowpea
- [ ] Roundnut
- [ ] Other

List other crops (separated by commas)

_____

Change in soil health over the past 5 years:

Change in soil health over the past 5 years:	Deteriorating	Stable	Improving
Soil fertility	◯	◯	◯
Soil erosion	◯	◯	◯
Soil compaction	◯	◯	◯
Tree cover	◯	◯	◯

Maize

Main mode of land preparation for maize in the season 2021-22?

- Tractor
- Draught animals
- Hand hoes

Quantity (kg) of basal fertilizer applied to maize in the season 2021-22?

_____

Quantity (kg) of topdressing fertilizer applied to maize in the season 2021-22?

_____

Quantity (kg) of manure applied to maize in the season 2021-22?

_____

Quantity (kg) of compost applied to maize in the season 2021-22?

_____

Main mode of maize weeding in the season 2021-22?

- No weeding
- Hand weeding
- Cultivation with animal traction
- Herbicide

Total number of pesticide treatments applied to maize in the season 2021-22?

_____

Did you use biopesticides on your maize crop in the season 2021-22?

- No
- Yes

Total maize production in the season 2021-22 (kg)?

_____

Use of maize residues (% weight)

_____

Burnt

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Retained in the field

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Grazed in the field

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Harvested for feed

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Harvested for compost

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Harvested for fuel

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Harvested for fencing

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

What was the most important animal species - large or small, domestic or wild - that caused damages to your maize crop in the season 2021-22?

1st choice

- None
- Cattle
- Donkeys
- Goats
- Sheep
- Pigs
- Guinea fowls
- Turkeys
- Ducks
- Goose
- Pigeons
- Elephants
- Buffaloes
- Hippopotamuses
- Wild pigs
- Kudus and other large size antelopes
- Impalas and other medium size antelopes
- Duikers and other small size antelopes
- Baboons
- Vervets
- Civets, Jackals and other small carnivores
- Porcupines
- Rats and mice
- Squirrels and other rodents
- Guinea fowls, francolins and other ground dwelling birds
- Quelea birds
- Other flying birds
- Millipedes
- Crickets
- Fall armyworm
- Stemborers and other catterpillars
- Aphids
- Other insects

2nd choice

- None
- Cattle
- Donkeys
- Goats
- Sheep
- Pigs
- Guinea fowls
- Turkeys
- Ducks
- Goose
- Pigeons
- Elephants
- Buffaloes
- Hippopotamuses
- Wild pigs
- Kudus and other large size antelopes
- Impalas and other medium size antelopes
- Duikers and other small size antelopes
- Baboons
- Vervets
- Civets, Jackals and other small carnivores
- Porcupines
- Rats and mice
- Squirrels and other rodents
- Guinea fowls, francolins and other ground dwelling birds
- Quelea birds
- Other flying birds
- Millipedes
- Crickets
- Fall armyworm
- Stemborers and other catterpillars
- Aphids
- Other insects

3rd choice

- None
- Cattle
- Donkeys
- Goats
- Sheep
- Pigs
- Guinea fowls
- Turkeys
- Ducks
- Goose
- Pigeons
- Elephants
- Buffaloes
- Hippopotamuses
- Wild pigs
- Kudus and other large size antelopes
- Impalas and other medium size antelopes
- Duikers and other small size antelopes
- Baboons
- Vervets
- Civets, Jackals and other small carnivores
- Porcupines
- Rats and mice
- Squirrels and other rodents
- Guinea fowls, francolins and other ground dwelling birds
- Quelea birds
- Other flying birds
- Millipedes
- Crickets
- Fall armyworm
- Stemborers and other catterpillars
- Aphids
- Other insects

What was the most important market for your maize crop in the season 2021-22?

1st choice

- None
- Farm gate
- Village market
- Local collection point
- Local warehouse
- Local business centre
- GMB
- Contract company
- Private buyers from Mozambique
- Other

2nd choice

- None
- Farm gate
- Village market
- Local collection point
- Local warehouse
- Local business centre
- GMB
- Contract company
- Private buyers from Mozambique
- Other

3rd choice

- None
- Farm gate
- Village market
- Local collection point
- Local warehouse
- Local business centre
- GMB
- Contract company
- Private buyers from Mozambique
- Other

Sorghum

Main mode of land preparation for sorghum in the season 2021-22?

- Tractor
- Draught animals
- Hand hoes

Quantity (kg) of basal fertilizer applied to sorghum in the season 2021-22?

_____

Quantity (kg) of topdressing fertilizer applied to sorghum in the season 2021-22?

_____

Quantity (kg) of manure applied to sorghum in the season 2021-22?

_____

Quantity (kg) of compost applied to sorghum in the season 2021-22?

_____

Main mode of sorghum weeding in the season 2021-22?

- No weeding
- Hand weeding
- Cultivation with animal traction
- Herbicide

Total number of pesticide treatments applied to sorghum in the season 2021-22?

_____

Did you use biopesticides on your sorghum crop in the season 2021-22?

- No
- Yes

Total sorghum production in the season 2021-22 (kg)?

_____

Use of sorghum residues (% weight)

_____

Burnt

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Retained in the field

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Grazed in the field

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Harvested for feed

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Harvested for compost

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Harvested for fuel

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Harvested for fencing

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

What was the most important animal species - large or small, domestic or wild - that caused damages to your sorghum crop in the season 2021-22?

_____

1st choice

- None
- Cattle
- Donkeys
- Goats
- Sheep
- Pigs
- Guinea fowls
- Turkeys
- Ducks
- Goose
- Pigeons
- Elephants
- Buffaloes
- Hippopotamuses
- Wild pigs
- Kudus and other large size antelopes
- Impalas and other medium size antelopes
- Duikers and other small size antelopes
- Baboons
- Vervets
- Civets, Jackals and other small carnivores
- Porcupines
- Rats and mice
- Squirrels and other rodents
- Guinea fowls, francolins and other ground dwelling birds
- Quelea birds
- Other flying birds
- Millipedes
- Crickets
- Fall armyworm
- Stemborers and other catterpillars
- Aphids
- Other insects

2nd choice

- None
- Cattle
- Donkeys
- Goats
- Sheep
- Pigs
- Guinea fowls
- Turkeys
- Ducks
- Goose
- Pigeons
- Elephants
- Buffaloes
- Hippopotamuses
- Wild pigs
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- Impalas and other medium size antelopes
- Duikers and other small size antelopes
- Baboons
- Vervets
- Civets, Jackals and other small carnivores
- Porcupines
- Rats and mice
- Squirrels and other rodents
- Guinea fowls, francolins and other ground dwelling birds
- Quelea birds
- Other flying birds
- Millipedes
- Crickets
- Fall armyworm
- Stemborers and other catterpillars
- Aphids
- Other insects

3rd choice

- None
- Cattle
- Donkeys
- Goats
- Sheep
- Pigs
- Guinea fowls
- Turkeys
- Ducks
- Goose
- Pigeons
- Elephants
- Buffaloes
- Hippopotamuses
- Wild pigs
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- Duikers and other small size antelopes
- Baboons
- Vervets
- Civets, Jackals and other small carnivores
- Porcupines
- Rats and mice
- Squirrels and other rodents
- Guinea fowls, francolins and other ground dwelling birds
- Quelea birds
- Other flying birds
- Millipedes
- Crickets
- Fall armyworm
- Stemborers and other catterpillars
- Aphids
- Other insects

What was the most important market for your sorghum crop in the season 2021-22?

1st choice

- None
- Farm gate
- Village market
- Local collection point
- Local warehouse
- Local business centre
- GMB
- Contract company
- Private buyers from Mozambique
- Other

2nd choice

- None
- Farm gate
- Village market
- Local collection point
- Local warehouse
- Local business centre
- GMB
- Contract company
- Private buyers from Mozambique
- Other

3rd choice

- None
- Farm gate
- Village market
- Local collection point
- Local warehouse
- Local business centre
- GMB
- Contract company
- Private buyers from Mozambique
- Other

Sesame

Main mode of land preparation for sesame in the season 2021-22?

- Tractor
- Draught animals
- Hand hoes

Quantity (kg) of basal fertilizer applied to sesame in the season 2021-22?

_____

Quantity (kg) of topdressing fertilizer applied to sesame in the season 2021-22?

_____

Quantity (kg) of manure applied to sesame in the season 2021-22?

_____

Quantity (kg) of compost applied to sesame in the season 2021-22?

_____

Main mode of sesame weeding in the season 2021-22?

- No weeding
- Hand weeding
- Cultivation with animal traction
- Herbicide

Total number of pesticide treatments applied to sesame in the season 2021-22?

_____

Did you use biopesticides on your sesame crop in the season 2021-22?

- No
- Yes

Total sesame production in the season 2021-22 (kg)?

_____

Use of sesame residues (% weight)

_____

Burnt

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Retained in the field

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Grazed in the field

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Harvested for feed

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Harvested for compost

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

What was the most important animal species - large or small, domestic or wild - that caused damages to your sesame crop in the season 2021-22?

1st choice

- None
- Cattle
- Donkeys
- Goats
- Sheep
- Pigs
- Guinea fowls
- Turkeys
- Ducks
- Goose
- Pigeons
- Elephants
- Buffaloes
- Hippopotamuses
- Wild pigs
- Kudus and other large size antelopes
- Impalas and other medium size antelopes
- Duikers and other small size antelopes
- Baboons
- Vervets
- Civets, Jackals and other small carnivores
- Porcupines
- Rats and mice
- Squirrels and other rodents
- Guinea fowls, francolins and other ground dwelling birds
- Quelea birds
- Other flying birds
- Millipedes
- Crickets
- Fall armyworm
- Stemborers and other catterpillars
- Aphids
- Other insects

2nd choice

- None
- Cattle
- Donkeys
- Goats
- Sheep
- Pigs
- Guinea fowls
- Turkeys
- Ducks
- Goose
- Pigeons
- Elephants
- Buffaloes
- Hippopotamuses
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- Porcupines
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- Guinea fowls, francolins and other ground dwelling birds
- Quelea birds
- Other flying birds
- Millipedes
- Crickets
- Fall armyworm
- Stemborers and other catterpillars
- Aphids
- Other insects

3rd choice

- None
- Cattle
- Donkeys
- Goats
- Sheep
- Pigs
- Guinea fowls
- Turkeys
- Ducks
- Goose
- Pigeons
- Elephants
- Buffaloes
- Hippopotamuses
- Wild pigs
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- Baboons
- Vervets
- Civets, Jackals and other small carnivores
- Porcupines
- Rats and mice
- Squirrels and other rodents
- Guinea fowls, francolins and other ground dwelling birds
- Quelea birds
- Other flying birds
- Millipedes
- Crickets
- Fall armyworm
- Stemborers and other catterpillars
- Aphids
- Other insects

What was the most important market for your sesame crop in the season 2021-22?

1st choice

- None
- Farm gate
- Village market
- Local collection point
- Local warehouse
- Local business centre
- GMB
- Contract company
- Private buyers from Mozambique
- Other

2nd choice

- None
- Farm gate
- Village market
- Local collection point
- Local warehouse
- Local business centre
- GMB
- Contract company
- Private buyers from Mozambique
- Other

3rd choice

- None
- Farm gate
- Village market
- Local collection point
- Local warehouse
- Local business centre
- GMB
- Contract company
- Private buyers from Mozambique
- Other

Groundnut

Main mode of land preparation for groundnut in the season 2021-22?

- Tractor
- Draught animals
- Hand hoes

Quantity (kg) of basal fertilizer applied to groundnut in the season 2021-22?

_____

Quantity (kg) of topdressing fertilizer applied to groundnut in the season 2021-22?

_____

Quantity (kg) of manure applied to groundnut in the season 2021-22?

_____

Quantity (kg) of compost applied to groundnut in the season 2021-22?

_____

Main mode of groundnut weeding in the season 2021-22?

- No weeding
- Hand weeding
- Cultivation with animal traction
- Herbicide

Total number of pesticide treatments applied to groundnut in the season 2021-22?

_____

Did you use biopesticides on your groundnut crop in the season 2021-22?

- No
- Yes

Total production of unshelled groundnut in the season 2021-22 (kg)?

Use of groundnut residues (% weight)

Burnt

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Retained in the field

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Grazed in the field

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Harvested for feed

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Harvested for compost

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

What was the most important animal species - large or small, domestic or wild - that caused damages to your groundnut crop in the season 2021-22?

1st choice

- None
- Cattle
- Donkeys
- Goats
- Sheep
- Pigs
- Guinea fowls
- Turkeys
- Ducks
- Goose
- Pigeons
- Elephants
- Buffaloes
- Hippopotamuses
- Wild pigs
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- Rats and mice
- Squirrels and other rodents
- Guinea fowls, francolins and other ground dwelling birds
- Quelea birds
- Other flying birds
- Millipedes
- Crickets
- Fall armyworm
- Stemborers and other catterpillars
- Aphids
- Other insects

2nd choice

- None
- Cattle
- Donkeys
- Goats
- Sheep
- Pigs
- Guinea fowls
- Turkeys
- Ducks
- Goose
- Pigeons
- Elephants
- Buffaloes
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- Vervets
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- Porcupines
- Rats and mice
- Squirrels and other rodents
- Guinea fowls, francolins and other ground dwelling birds
- Quelea birds
- Other flying birds
- Millipedes
- Crickets
- Fall armyworm
- Stemborers and other catterpillars
- Aphids
- Other insects

3rd choice

- None
- Cattle
- Donkeys
- Goats
- Sheep
- Pigs
- Guinea fowls
- Turkeys
- Ducks
- Goose
- Pigeons
- Elephants
- Buffaloes
- Hippopotamuses
- Wild pigs
- Kudus and other large size antelopes
- Impalas and other medium size antelopes
- Duikers and other small size antelopes
- Baboons
- Vervets
- Civets, Jackals and other small carnivores
- Porcupines
- Rats and mice
- Squirrels and other rodents
- Guinea fowls, francolins and other ground dwelling birds
- Quelea birds
- Other flying birds
- Millipedes
- Crickets
- Fall armyworm
- Stemborers and other catterpillars
- Aphids
- Other insects

What was the most important market for your groundnut crop in the season 2021-22?

1st choice

- None
- Farm gate
- Village market
- Local collection point
- Local warehouse
- Local business centre
- GMB
- Contract company
- Private buyers from Mozambique
- Other

2nd choice

- None
- Farm gate
- Village market
- Local collection point
- Local warehouse
- Local business centre
- GMB
- Contract company
- Private buyers from Mozambique
- Other

3rd choice

- None
- Farm gate
- Village market
- Local collection point
- Local warehouse
- Local business centre
- GMB
- Contract company
- Private buyers from Mozambique
- Other

Cotton

Main mode of land preparation for cotton in the season 2021-22?

- Tractor
- Draught animals
- Hand hoes

Quantity (kg) of basal fertilizer applied to cotton in the season 2021-22?

_____

Quantity (kg) of topdressing fertilizer applied to cotton in the season 2021-22?

_____

Quantity (kg) of manure applied to cotton in the season 2021-22?

_____

Quantity (kg) of compost applied to cotton in the season 2021-22?

_____

Main mode of cotton weeding in the season 2021-22?

- No weeding
- Hand weeding
- Cultivation with animal traction
- Herbicide

Total number of pesticide treatments applied to cotton in the season 2021-22?

_____

Did you use biopesticides on your cotton crop in the season 2021-22?

- No
- Yes

Total cotton production in the season 2021-22 (kg)?

_____

What was the most important animal species - large or small, domestic or wild - that caused damages to your cotton crop in the season 2021-22?

_____

1st choice

- None
- Cattle
- Donkeys
- Goats
- Sheep
- Pigs
- Guinea fowls
- Turkeys
- Ducks
- Goose
- Pigeons
- Elephants
- Buffaloes
- Hippopotamuses
- Wild pigs
- Kudus and other large size antelopes
- Impalas and other medium size antelopes
- Duikers and other small size antelopes
- Baboons
- Vervets
- Civets, Jackals and other small carnivores
- Porcupines
- Rats and mice
- Squirrels and other rodents
- Guinea fowls, francolins and other ground dwelling birds
- Quelea birds
- Other flying birds
- Millipedes
- Crickets
- Fall armyworm
- Stemborers and other catterpillars
- Aphids
- Other insects

2nd choice

- None
- Cattle
- Donkeys
- Goats
- Sheep
- Pigs
- Guinea fowls
- Turkeys
- Ducks
- Goose
- Pigeons
- Elephants
- Buffaloes
- Hippopotamuses
- Wild pigs
- Kudus and other large size antelopes
- Impalas and other medium size antelopes
- Duikers and other small size antelopes
- Baboons
- Vervets
- Civets, Jackals and other small carnivores
- Porcupines
- Rats and mice
- Squirrels and other rodents
- Guinea fowls, francolins and other ground dwelling birds
- Quelea birds
- Other flying birds
- Millipedes
- Crickets
- Fall armyworm
- Stemborers and other catterpillars
- Aphids
- Other insects

3rd choice

- None
- Cattle
- Donkeys
- Goats
- Sheep
- Pigs
- Guinea fowls
- Turkeys
- Ducks
- Goose
- Pigeons
- Elephants
- Buffaloes
- Hippopotamuses
- Wild pigs
- Kudus and other large size antelopes
- Impalas and other medium size antelopes
- Duikers and other small size antelopes
- Baboons
- Vervets
- Civets, Jackals and other small carnivores
- Porcupines
- Rats and mice
- Squirrels and other rodents
- Guinea fowls, francolins and other ground dwelling birds
- Quelea birds
- Other flying birds
- Millipedes
- Crickets
- Fall armyworm
- Stemborers and other catterpillars
- Aphids
- Other insects

What was the most important market for your cotton crop in the season 2021-22?

1st choice

- None
- Farm gate
- Village market
- Local collection point
- Local warehouse
- Local business centre
- GMB
- Contract company
- Private buyers from Mozambique
- Other

2nd choice

- None
- Farm gate
- Village market
- Local collection point
- Local warehouse
- Local business centre
- GMB
- Contract company
- Private buyers from Mozambique
- Other

3rd choice

- None
- Farm gate
- Village market
- Local collection point
- Local warehouse
- Local business centre
- GMB
- Contract company
- Private buyers from Mozambique
- Other

Tomato

Total number of pesticide treatments applied to your last tomato crop, from seedling till harvest?

Did you use biopesticides on your last tomato crop?

- No
- Yes

Total tomato production in the last 12 months (kg)?

What was the most important animal species - large or small, domestic or wild - that caused damages to your tomato crop in the last 12 months?

1st choice

- None
- Cattle
- Donkeys
- Goats
- Sheep
- Pigs
- Guinea fowls
- Turkeys
- Ducks
- Goose
- Pigeons
- Elephants
- Buffaloes
- Hippopotamuses
- Wild pigs
- Kudus and other large size antelopes
- Impalas and other medium size antelopes
- Duikers and other small size antelopes
- Baboons
- Vervets
- Civets, Jackals and other small carnivores
- Porcupines
- Rats and mice
- Squirrels and other rodents
- Guinea fowls, francolins and other ground dwelling birds
- Quelea birds
- Other flying birds
- Millipedes
- Crickets
- Fall armyworm
- Stemborers and other catterpillars
- Aphids
- Other insects

2nd choice

- None
- Cattle
- Donkeys
- Goats
- Sheep
- Pigs
- Guinea fowls
- Turkeys
- Ducks
- Goose
- Pigeons
- Elephants
- Buffaloes
- Hippopotamuses
- Wild pigs
- Kudus and other large size antelopes
- Impalas and other medium size antelopes
- Duikers and other small size antelopes
- Baboons
- Vervets
- Civets, Jackals and other small carnivores
- Porcupines
- Rats and mice
- Squirrels and other rodents
- Guinea fowls, francolins and other ground dwelling birds
- Quelea birds
- Other flying birds
- Millipedes
- Crickets
- Fall armyworm
- Stemborers and other catterpillars
- Aphids
- Other insects

3rd choice

- None
- Cattle
- Donkeys
- Goats
- Sheep
- Pigs
- Guinea fowls
- Turkeys
- Ducks
- Goose
- Pigeons
- Elephants
- Buffaloes
- Hippopotamuses
- Wild pigs
- Kudus and other large size antelopes
- Impalas and other medium size antelopes
- Duikers and other small size antelopes
- Baboons
- Vervets
- Civets, Jackals and other small carnivores
- Porcupines
- Rats and mice
- Squirrels and other rodents
- Guinea fowls, francolins and other ground dwelling birds
- Quelea birds
- Other flying birds
- Millipedes
- Crickets
- Fall armyworm
- Stemborers and other catterpillars
- Aphids
- Other insects

What was the most important market for your tomato crop in the last 12 months?

1st choice

- None
- Farm gate
- Village market
- Local collection point
- Local warehouse
- Local business centre
- GMB
- Contract company
- Private buyers from Mozambique
- Other

2nd choice

- None
- Farm gate
- Village market
- Local collection point
- Local warehouse
- Local business centre
- GMB
- Contract company
- Private buyers from Mozambique
- Other

3rd choice

- None
- Farm gate
- Village market
- Local collection point
- Local warehouse
- Local business centre
- GMB
- Contract company
- Private buyers from Mozambique
- Other

Onion

Total number of pesticide treatments applied to your last onion crop, from seedling till harvest?

Did you use biopesticides on your last onion crop?

- No
- Yes

Total onion production in the last 12 months (kg)?

_____

What was the most important animal species - large or small, domestic or wild - that caused damages to your onion crop in the last 12 months?

_____

1st choice

- None
- Cattle
- Donkeys
- Goats
- Sheep
- Pigs
- Guinea fowls
- Turkeys
- Ducks
- Goose
- Pigeons
- Elephants
- Buffaloes
- Hippopotamuses
- Wild pigs
- Kudus and other large size antelopes
- Impalas and other medium size antelopes
- Duikers and other small size antelopes
- Baboons
- Vervets
- Civets, Jackals and other small carnivores
- Porcupines
- Rats and mice
- Squirrels and other rodents
- Guinea fowls, francolins and other ground dwelling birds
- Quelea birds
- Other flying birds
- Millipedes
- Crickets
- Fall armyworm
- Stemborers and other catterpillars
- Aphids
- Other insects

2nd choice

- None
- Cattle
- Donkeys
- Goats
- Sheep
- Pigs
- Guinea fowls
- Turkeys
- Ducks
- Goose
- Pigeons
- Elephants
- Buffaloes
- Hippopotamuses
- Wild pigs
- Kudus and other large size antelopes
- Impalas and other medium size antelopes
- Duikers and other small size antelopes
- Baboons
- Vervets
- Civets, Jackals and other small carnivores
- Porcupines
- Rats and mice
- Squirrels and other rodents
- Guinea fowls, francolins and other ground dwelling birds
- Quelea birds
- Other flying birds
- Millipedes
- Crickets
- Fall armyworm
- Stemborers and other catterpillars
- Aphids
- Other insects

3rd choice

- None
- Cattle
- Donkeys
- Goats
- Sheep
- Pigs
- Guinea fowls
- Turkeys
- Ducks
- Goose
- Pigeons
- Elephants
- Buffaloes
- Hippopotamuses
- Wild pigs
- Kudus and other large size antelopes
- Impalas and other medium size antelopes
- Duikers and other small size antelopes
- Baboons
- Vervets
- Civets, Jackals and other small carnivores
- Porcupines
- Rats and mice
- Squirrels and other rodents
- Guinea fowls, francolins and other ground dwelling birds
- Quelea birds
- Other flying birds
- Millipedes
- Crickets
- Fall armyworm
- Stemborers and other catterpillars
- Aphids
- Other insects

What was the most important market for your onion crop in the last 12 months?

1st choice

- None
- Farm gate
- Village market
- Local collection point
- Local warehouse
- Local business centre
- GMB
- Contract company
- Private buyers from Mozambique
- Other

2nd choice

- None
- Farm gate
- Village market
- Local collection point
- Local warehouse
- Local business centre
- GMB
- Contract company
- Private buyers from Mozambique
- Other

3rd choice

- None
- Farm gate
- Village market
- Local collection point
- Local warehouse
- Local business centre
- GMB
- Contract company
- Private buyers from Mozambique
- Other

Have you used the following improved crop practices in the past 12 months?

Practices:

No Yes

Quality certified seeds (i.e., trusted source, guaranted minimum germination rate)	◉	○
Community seed banks	◉	○
Drought-tolerant varieties	◉	○
Small grains	◉	○
Early planting	◉	○
Crop rotation	◉	○
Intercropping	◉	○
Cover crops (i.e., crops planted specifically to control erosion and/or increase soil fertility)	◉	○
Mulching	◉	○
Integrated pest management (i.e., scouting and use of several control methods in addition to pesticides)	◉	○
Compost/Manure	◉	○
Drip/Micro irrigation	◉	○
Optimum plant density (e.g., gap filling, planting at the right density, including through the use of mechanical planters)	◉	○
Tree planting on-farm	◉	○
Tree retention (natural regeneration) on-farm	◉	○

Livestock ownership

How many adult indigenous cattle do you currently own?

0

How many improved beef cattle do you currently own?

0

How many improved dairy cattle do you currently own?

0

How many juvenile cattle (< 3 yr old, indigenous and improved) do you currently own?

0

How many donkeys do you currently own?

0

How many indigenous goats do you currently own?

0

How many improved goats do you currently own?

0

How many sheep do you currently own?

0

How many pigs do you currently own?

0

How many indigenous chickens do you currently own?

0

How many layer chickens do you currently own?

0

How many broiler chickens do you currently own?

0

How many guinea fowls do you currently own?

0

How many turkeys do you currently own?

0

How many ducks do you currently own?

0

How many geese do you currently own?

0

How many pigeons do you currently own?

0

How many rabbits do you currently own?

0

How many bee hives do you currently own?

0

Do you have a fish pond?

- (●) No
- ( ) Yes

Cattle

Cattle feed composition (% weight) in December - May

Grazing

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Cut and carry wild grass

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Hay

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Pods

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Cereal residues

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Cultivated grass forage

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Cultivated legume forage

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Commercial feed

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Cattle feed composition (% weight) in June - November

Grazing

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Cut and carry wild grass

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Hay

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Pods

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Cereal residues

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Cultivated grass forage

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Cultivated legume forage

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Commercial feed

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Time (hour) to main cattle grazing area

Time (hour) to main cattle drinking point

_____

Number of cattle births or purchases in the past 12 months?

_____

Number of cattle sold or slaughtered in the past 12 months?

_____

Number of cattle deaths in the past 12 months?

_____

Number of cattle killed by wild animals in the past 12 months?

_____

Number of cattle thefts in the past 12 months?

_____

What is the average production of milk (L per day) during the rainy season (December - May)?

_____

What is the average production of milk (L per day) during the dry season June - November)?

_____

What was the most important cattle disease you have experienced in the last 12 months?

_____

1st choice

- None
- Anaplasmosis
- Black leg
- Rabies
- Other
- Theileriosis
- Trypanosomosis
- Foot-and-mouth disease
- Tuberculosis
- Babesiosis
- Anthrax
- Lumpy skin
- Brucellosis

2nd choice

- None
- Theileriosis
- Babesiosis
- Anaplasmosis
- Trypanosomosis
- Anthrax
- Black leg
- Foot-and-mouth disease
- Lumpy skin
- Rabies
- Tuberculosis
- Brucellosis
- Other

3rd choice

- None
- Theileriosis
- Babesiosis
- Anaplasmosis
- Trypanosomosis
- Anthrax
- Black leg
- Foot-and-mouth disease
- Lumpy skin
- Rabies
- Tuberculosis
- Brucellosis
- Other

What was the most important animal species - wild or domestic - predating your cattle in the last 12 months?

_____

1st choice

- None
- Domestic dogs
- Lions
- Leopards
- Hyenas
- Wild dogs
- Jackals
- Civets, genets and other small carnivores
- Baboons
- Crocodiles
- Pythons
- Birds of prey

2nd choice

- None
- Domestic dogs
- Lions
- Leopards
- Hyenas
- Wild dogs
- Jackals
- Civets, genets and other small carnivores
- Baboons
- Crocodiles
- Pythons
- Birds of prey

3rd choice

- None
- Domestic dogs
- Lions
- Leopards
- Hyenas
- Wild dogs
- Jackals
- Civets, genets and other small carnivores
- Baboons
- Crocodiles
- Pythons
- Birds of prey

What was the most important market for your cattle in the last 12 months?

_____

1st choice

- None
- Local sale pen
- Local dip tank
- Other
- Farm gate
- Local collection point
- Regional auction
- Village market
- Local business centre
- Regional town

2nd choice

- None
- Local sale pen
- Local dip tank
- Other
- Farm gate
- Local collection point
- Regional auction
- Village market
- Local business centre
- Regional town

3rd choice

- None
- Local sale pen
- Local dip tank
- Other
- Farm gate
- Local collection point
- Regional auction
- Village market
- Local business centre
- Regional town

Goats

Goat feed composition (% weight) in December - May

Grazing

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Cut and carry wild grass

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Hay

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Pods

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Cereal residues

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Cultivated grass forage

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Cultivated legume forage

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Commercial feed

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Household/kitchen wastes

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Goat feed composition (% weight) in June - November

Grazing

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Cut and carry wild grass

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Hay

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Pods

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Cereal residues

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Cultivated grass forage

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Cultivated legume forage

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Commercial feed

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Household/kitchen wastes

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Time (hour) to main goat grazing area

_____

Time (hour) to main goat drinking point

_____

Number of goat births or purchases in the past 12 months?

_____

Number of goats sold or slaughtered in the past 12 months?

_____

Number of goat deaths in the past 12 months?

_____

Number of goat killed by wild animals in the past 12 months?

_____

What was the most important goat disease you have experienced in the last 12 months?

_____

1st choice

- None
- Rinderpest
- Pulpy kidney
- Mange
- Anthrax
- Brucellosis
- Tuberculosis
- Other

2nd choice

- None
- Rinderpest
- Pulpy kidney
- Mange
- Anthrax
- Brucellosis
- Tuberculosis
- Other

3rd choice

- None
- Rinderpest
- Pulpy kidney
- Mange
- Anthrax
- Brucellosis
- Tuberculosis
- Other

What was the most important wild animal species - wild or domestic - predating your goats in the last 12 months?

1st choice

- None
- Domestic dogs
- Lions
- Leopards
- Hyenas
- Wild dogs
- Jackals
- Civets, genets and other small carnivores
- Baboons
- Crocodiles
- Pythons
- Birds of prey

2nd choice

- None
- Domestic dogs
- Lions
- Leopards
- Hyenas
- Wild dogs
- Jackals
- Civets, genets and other small carnivores
- Baboons
- Crocodiles
- Pythons
- Birds of prey

3rd choice

- None
- Domestic dogs
- Lions
- Leopards
- Hyenas
- Wild dogs
- Jackals
- Civets, genets and other small carnivores
- Baboons
- Crocodiles
- Pythons
- Birds of prey

What was the most important market for your goats in the last 12 months?

1st choice

- None
- Farm gate
- Village market
- Local sale pen
- Local collection point
- Local business centre
- Local dip tank
- Regional auction
- Regional town
- Other

2nd choice

- None
- Farm gate
- Village market
- Local sale pen
- Local collection point
- Local business centre
- Local dip tank
- Regional auction
- Regional town
- Other

3rd choice

- None
- Farm gate
- Village market
- Local sale pen
- Local collection point
- Local business centre
- Local dip tank
- Regional auction
- Regional town
- Other

Indigenous chicken

Indigenous chicken feed composition (% weight) in December - May

Free ranging

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Maize produced on-farm

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Sorghum produced on-farm

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Pearl millet produced on-farm

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Finger millet produced on-farm

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Commercial feed

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Household/kitchen wastes

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Indigenous chicken feed composition (% weight) in June - November

Free ranging

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Maize produced on-farm

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Sorghum produced on-farm

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Pearl millet produced on-farm

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Finger millet produced on-farm

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Commercial feed

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Household/kitchen wastes

0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Number of indigenous chicken births or purchases in the past 12 months?

Number of indigenous chicken sold or slaughtered in the past 12 months?

Number of indigenous chicken deaths in the past 12 months?

Number of indigenous chicken killed by wild animals in the past 12 months?

What was the most important indigenous chicken disease you have experienced in the last 12 months?

1st choice

- None
- Coryza
- Newcastle
- Fowl pox
- Other

2nd choice

- None
- Coryza
- Newcastle
- Fowl pox
- Other

3rd choice

- None
- Coryza
- Newcastle
- Fowl pox
- Other

What was the most important wild animal species - wild or domestic - predating your indigenous chicken in the last 12 months?

1st choice

- None
- Domestic dogs
- Lions
- Leopards
- Hyenas
- Wild dogs
- Jackals
- Civets, genets and other small carnivores
- Baboons
- Crocodiles
- Pythons
- Birds of prey

2nd choice

- None
- Domestic dogs
- Lions
- Leopards
- Hyenas
- Wild dogs
- Jackals
- Civets, genets and other small carnivores
- Baboons
- Crocodiles
- Pythons
- Birds of prey

3rd choice

- None
- Domestic dogs
- Lions
- Leopards
- Hyenas
- Wild dogs
- Jackals
- Civets, genets and other small carnivores
- Baboons
- Crocodiles
- Pythons
- Birds of prey

What was the most important market for your indigenous chicken in the last 12 months?

1st choice

- None
- Farm gate
- Village market
- Local sale pen
- Local collection point
- Local business centre
- Local dip tank
- Regional auction
- Regional town
- Other

2nd choice

- None
- Farm gate
- Village market
- Local sale pen
- Local collection point
- Local business centre
- Local dip tank
- Regional auction
- Regional town
- Other

3rd choice

- None
- Farm gate
- Village market
- Local sale pen
- Local collection point
- Local business centre
- Local dip tank
- Regional auction
- Regional town
- Other

Bee keeping

How much honey did you produce in the past 12 months (kg)?

What was the most important market for your honey in the last 12 months?

1st choice

- None
- Farm gate
- Village market
- Local sale pen
- Local collection point
- Local business centre
- Local dip tank
- Regional auction
- Regional town
- Other

2nd choice

- None
- Farm gate
- Village market
- Local sale pen
- Local collection point
- Local business centre
- Local dip tank
- Regional auction
- Regional town
- Other

3rd choice

- None
- Farm gate
- Village market
- Local sale pen
- Local collection point
- Local business centre
- Local dip tank
- Regional auction
- Regional town
- Other

Have you used the following improved livestock practices in the past 12 months?

Practices:	No	Yes
Improved livestock breeds	◉	○
Improved animal shelters (for goats, poultry or cattle: enough space, good ventilation, protecting from the sun, dry floor)	◉	○
Water infrastructure for livestock at homestead (e.g. water trough)	◉	○
Routine vaccinations by Veterinary Officer or Paravet	◉	○
Home vaccinations (farmer administered vaccinations)	◉	○
Castration	◉	○
Deworming	◉	○
Dipping	◉	○
Spraying livestock at home	◉	○
Use of services of community animal health worker (Paravet)	◉	○
Homemade animal feeds made with locally available ingredients (e.g. for poultry)	◉	○
Fodder production for ruminants (e.g. velvet bean, lablab)	◉	○
Fodder preservation for ruminants (e.g. Silage making)	◉	○
Survival feeding (feeding of productive livestock in lean season)	◉	○
Animal feed supplied by feed companies	◉	○
Artificial insemination	◉	○
Pen fattening	◉	○

Food sources

Most important food sources

1st choice

- ○ Own production
- ○ Cash purchase from income
- ○ Casual labour for food
- ○ Remittances
- ○ Food aid
- ○ Purchase from cash transfer

2nd choice

- ○ Own production
- ○ Cash purchase from income
- ○ Casual labour for food
- ○ Remittances
- ○ Food aid
- ○ Purchase from cash transfer

3rd choice

- ○ Own production
- ○ Cash purchase from income
- ○ Casual labour for food
- ○ Remittances
- ○ Food aid
- ○ Purchase from cash transfer

Food security

Food security situation in the past 12 months:	Low	Medium	High
November 2022	○	○	○
October 2022	○	○	○
September 2022	○	○	○
August 2022	○	○	○
July 2022	○	○	○
June 2022	○	○	○
May 2022	○	○	○
April 2022	○	○	○
March 2022	○	○	○
February 2022	○	○	○
January 2022	○	○	○
December 2021	○	○	○

24 hour household diet diversity

Were the following food items consumed by the household in the last 24 hours:	No	Yes
Cereals	◉	○
White roots and tubers	◉	○
Vitamin A rich vegetables and tubers	◉	○
Dark green leafy vegetables	◉	○

Other vegetables	◉	○
Vitamin A rich fruits	◉	○
Other fruits	◉	○
Organ meat	◉	○
Flesh meat	◉	○
Eggs	◉	○
Fish and seafood	◉	○
Legumes, nuts and seeds	◉	○
Milk and milk products	◉	○
Oils and fats	◉	○
Sweets	◉	○
Spices, condiments, beverages	◉	○
Outside meal or snack	◉	○

Income sources

Most important income sources

1st choice

- ○ Crop sales
- ○ Remittances
- ○ Artisan
- ○ Livestock sales
- ○ Salary or wages
- ○ Trade
- ○ Casual labour
- ○ Smallscale mining
- ○ Pension

2nd choice

- ○ Crop sales
- ○ Remittances
- ○ Artisan
- ○ Livestock sales
- ○ Salary or wages
- ○ Trade
- ○ Casual labour
- ○ Smallscale mining
- ○ Pension

3rd choice

- ○ Crop sales
- ○ Remittances
- ○ Artisan
- ○ Livestock sales
- ○ Salary or wages
- ○ Trade
- ○ Casual labour
- ○ Smallscale mining
- ○ Pension

Relationships

How close do you feel to:	I don't know	Not at all close	Not close	Close	Very close

Individuals from your community?	◉	○	○	○	○
Individuals from another community?	◉	○	○	○	○
The leaders of the community?	◉	○	○	○	○
NGOs	◉	○	○	○	○
Local government officials?	◉	○	○	○	○
National government officials	◉	○	○	○	○

Resouces

In difficult times, will your household be able to lean on:	I don't know	No	Yes
Individuals from your community?	◉	○	○
Individuals from another community?	◉	○	○
The leaders of the community?	◉	○	○
NGOs	◉	○	○
Local government officials?	◉	○	○
National government officials	◉	○	○

Trust

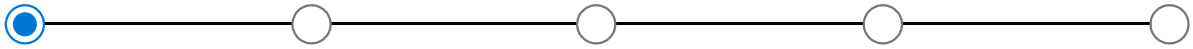
In difficult times, are the following likely to take advantage of you:	I don't know	No	Yes
Individuals from your community?	◉	○	○
Individuals from another community?	◉	○	○
The leaders of the community?	◉	○	○
NGOs	◉	○	○
Local government officials?	◉	○	○
National government officials	◉	○	○

Likelihood of agroecological transition

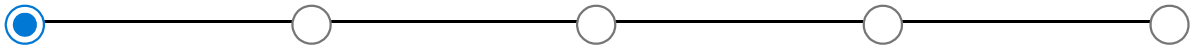
Do you perceive yourself as someone who is generally willing to take risks, or do you try to avoid taking risks?

◉ I don't know — ○ Not at all willing to take risks — ○ Somewhat not willing to take risks — ○ Somewhat willing to take risks — ○ Very willing to take risks

Do you perceive yourself as someone who is generally impatient and want to have 'things' now, or can you wait to get them later?

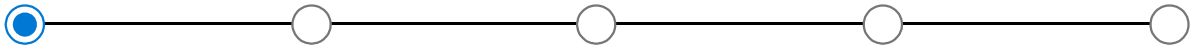


Do you perceive yourself as someone who generally thinks about the well-being of others in the village?

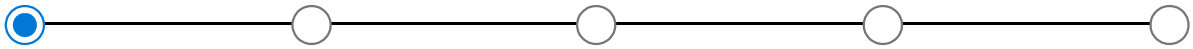


Agroecology is an approach to food production to harness nature's goods and services whilst minimizing adverse environmental impacts, and to improve farmer-consumer connectivity, knowledge co-creation and inclusive relationships among food system actors.

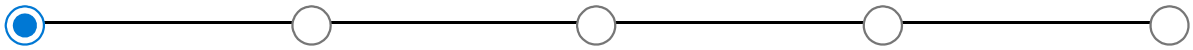
How likely would you be to sign up for contract farming that requires you to apply agroecological principles in your farm?



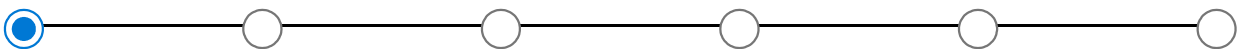
How likely would you be to apply agroecological principles in your farm if there was a ready market that demands agroecological goods and services?



How likely would you be to apply agroecological principles in your farm if there was a policy directive that required you to change ?



What kind of premium would you be ready to pay for goods produced agroecologically, compared to similar goods produced conventionally?



Disruption due to COVID-19

Most important disruption due to COVID-19

1st choice

- (●) None
- ( ) High seed cost
- ( ) High fertilizer cost
- ( ) Lack of agrochemicals
- ( ) Lack of labour for crop establishment
- ( ) Lack of labour for weeding
- ( ) Lack of labour for harvesting
- ( ) Disruption of sales of crop products
- ( ) Disruption of sale of livestock products
- ( ) Disruption of other income generating activities

2nd choice

- (●) None
- ( ) High seed cost
- ( ) High fertilizer cost
- ( ) Lack of agrochemicals
- ( ) Lack of labour for crop establishment
- ( ) Lack of labour for weeding
- ( ) Lack of labour for harvesting
- ( ) Disruption of sales of crop products
- ( ) Disruption of sale of livestock products
- ( ) Disruption of other income generating activities

3rd choice

- (●) None
- ( ) High seed cost
- ( ) High fertilizer cost
- ( ) Lack of agrochemicals
- ( ) Lack of labour for crop establishment
- ( ) Lack of labour for weeding
- ( ) Lack of labour for harvesting
- ( ) Disruption of sales of crop products
- ( ) Disruption of sale of livestock products
- ( ) Disruption of other income generating activities

Disruption due to Ukraine-Russia war

Are you aware of the current Ukraine-Russia war?

- (●) No
- ( ) Yes

Do you feel it has impacted your household?

- (●) No
- ( ) Yes

In what way?

_____

1st choice

- ( ) High food prices
- ( ) High fertilizer costs
- ( ) High transport costs
- ( ) High land preparation costs
- ( ) High grinding mill costs

2nd choice

- ○ High food prices
- ○ High fertilizer costs
- ○ High transport costs
- ○ High land preparation costs
- ○ High grinding mill costs

3rd choice

- ○ High food prices
- ○ High fertilizer costs
- ○ High transport costs
- ○ High land preparation costs
- ○ High grinding mill costs