

**S4 Appendix. Questionnaire used for the survey in Kenya.****KEFRI Questionnaire****Background****Country** Ethiopia Kenya**GPS Location***GPS coordinates can only be collected when outside.*

latitude (x.y °)

longitude (x.y °)

altitude (m)

accuracy (m)

**Date of interview**

yyyy-mm-dd

hh:mm

**Name of interviewer** Charles Magare David Odee James Gitu**Name of Interviewee/farmer****Household ID****What is the gender of the household head?** Female Male**How old is the household head (years)?****Marital status** Married Single Other

If the marital status is other, please give details

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What is the highest educational achievement of household head?

- Illiterate
- Elementary
- Highschool
- College/University

How many people (full time residents) live in the household/farm?

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What is your ethnic group?

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**Land tenure**

How is the land owned?

- Own
- Rental
- Communal
- Others

If Others, please specify

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What is the approximate size/acreage of your farm?

- 1-3 acres
- 4-10 acres
- 11-15 acres
- 16-20 acres
- > 20 acres

Are you engaged in any other off farm income generating activities?

- Yes
- No

If 'yes', what's the activity/ profession?

- Formal
- Self-employed
- Casual labour
- Others

If 'Formal', please specify

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If 'Others', please specify

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What crops do you grow on the farm? (Rank in order of importance)

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Do you keep any livestock?

- Yes
- No

If 'Yes', list/rank in order of importance

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For how long have you grown Moringa (years)?

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Why do you plant Moringa?

- Food
- Medicine
- Shade
- Ornament
- Shelterbelt
- Feed
- Green manure
- Other

**What part of the tree did you use to plant?**

- Seed
- Seedlings
- Branch cuttings
- Stem cuttings

**Where (or from who/whom) did you source your planting material?**

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**Species**

- Moringa oleifera
- Moringa stenopetala

**How do you use Moringa? Prompt with the list below if not mentioned**

- Leaves
- Bark
- Twigs
- Roots/tubers
- Green pods
- Stems
- Dry pods
- Branches
- Seeds
- Flowers
- Whole plant
- Fodder for livestock
- Firewood for cooking
- Water clarification
- Agroforestry: intercrop, hedge, boundary, aesthetic, green manure, shade, etc
- Other

**Description of use**

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**Description of use-1**

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**Description of use-2**

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**Description of use-3**

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**Description of use-4**

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**Do you sell any of the Moringa plant parts or products?**

- Yes  
 No

**If 'Yes', list Moringa plant parts/products, value and buyers (namely green leaves, dry leaves, greed pods, dry pods, seeds, fresh flowers, dry flowers, branches, stem roots, tubers, firewood**

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**If 'Yes', list Moringa plant parts/products, value and buyers (namely green leaves, dry leaves, greed pods, dry pods, seeds, fresh flowers, dry flowers, branches, stem roots, tubers, firewood**

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**Management**

**How often do you harvest or extract Moringa parts for use or sale?**

- Monthly  
 Quarterly  
 Bi-annually  
 Annually  
 Other

**If 'other', please specify**

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**What is the estimated number of Moringa tree/saplings on the farm?**

- 0-30  
 30-60  
 60-100  
 > 100

**Have you experienced any problems with pest, disease or livestock/wildlife damage? Moringa tree?**

- Yes  
 No

**If yes, describe the causal agent, type and part of the tree damaged**

- Leaves
- Roots/Tuber
- Stems
- Green pods
- Dry pods
- Branches
- Seeds
- Flowers

**Description of the damage**

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**Description of the damage**

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**Description of the damage**

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**If pest or disease attack, what period, season or time of the year when it most severe?**

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**What intervention or control methods did you use?**

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**Do you have any questions or comments about Moringa or general comments?**

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**Would like to receive or know more information regarding Moringa?**

- Yes
- No

**Observations to be made by the interviewing team (planting configuration, location, regeneration, management)**

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**What is the tree arrangement on the farm?**

- Scattered
- Isolated
- Lines
- Woodlot

**Where on the farm the trees are planted/located?**

- Farm/home boundary
- Hedge
- Intercropping with other crops

**Are there any signs of natural regeneration or fresh plantings?**

- Young seedlings
- Saplings
- Sprouting
- None

**How are the Moringa trees managed or tended?**

- Coppicing
- Pruning
- Lopping
- Pollarding
- Spot weeding
- Clear weeding

**Where do you get water for domestic use?**  

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**Do you find it necessary to cleanse or purify water for domestic use?**

- Yes
- No

**If 'Yes', how do you treat your water?**  

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**From what material is your house roof made?**  

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**From what material is your house floor made?**  

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**Do you have electricity in your house?**

Yes

No

**Moringa samples collected**

Mature leaves

Young leaves

Green pods

Seeds

Roots

**Leaves sample ID**

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**Green pod sample ID**

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**Seed sample ID**

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**Soil sample ID**

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**Moringa tree**

**Moringa leaves**

**Moringa green pods**

**Moringa seed**

**Root samples**

**Soil samples**

**What in-the-field treatment is applied to the sample? (e.g., washing with water)**

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**What is the approximate height of the tree? (metres)**

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**What is the approximate diameter at breast height of the tree? (centimetres)**

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**At what depth was the soil sample taken? (centimetres)**

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**Estimate the distance between soil sampling point/s and the base of the Moringa tree (metres)**

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Thanks for completing the questionnaire!