

## Agricultural Activities Questionnaire – Household Head and Spouse – Round 3

Household ID:	Respondent ID:	Date of Interview:
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**Instructions:** This questionnaire should be administered to the household head, or the person most knowledgeable about the household’s agricultural activities.

### Section A. Land Cultivation

**Instructions:** Now I would like to ask you about the land that you and your household own and/or farm.

1. Total Land Owned	a. Quantity	
	b. Land Unit Code	
2. Total Land Planted with Crops (include land that is owned by the households as well as land that the household rents)	a. Quantity	
	b. Land Unit Code	
3. Total Land Cultivated (include land used for grazing or housing livestock, and fallow land)	a. Quantity	
	<b>If 0 -&gt; End Section</b>	
4. Do you have a formal title to your land? 1 = Yes, 2= No	b. Land Unit Code	
5. Do you divide your farm into plots? If so, how many? (Enumerator: If no, enter “1”)		

**Land Unit Codes** 1=acres 2=hectares 3=sq. meters 4=sq. feet

**Instructions:** Now I would like to ask you about each of the shambas and gardens that members of your household have farmed, including plots that were farmed by your spouse.

**Enumerator:** Ask about each plot separately, based on the answer to Question 5 in Section A. Use N/A *only* for plots that were not owned in 2005 or 2006.

1. Plot Number	2. What use was this shamba/farm put to in 2005? (Include both long and short rains) <b>(Note: list crops in order of importance/acreage)</b> List up to 8 crop codes								3. What is this shamba/farm being used for in 2006? (Include both long and short rains) List up to 8 crop codes							
	A	B	C	D	E	F	G	H	A	B	C	D	E	F	G	H

**Crop or use codes**

- 1 Maize
- 2 Wheat
- 3 Millet or sorghum
- 4 Rice
- 5 Beans, peas, cowpeas, other pulses

- 6 Cabbage
- 7 Sukuma wiki (bunches)
- 8 Spinach
- 9 Yams or Sweet potatoes
- 10 Irish potatoes
- 11 Cassava
- 12 Groundnuts

- 13 Sunflower seeds
- 14 Tomatoes
- 15 Onions, leeks
- 16 Eggplant
- 17 Carrots
- 18 Capsicums/Green Peppers
- 19 Chillies

- 20 Coffee
- 21 Tea
- 22 Tobacco
- 23 Cotton
- 24 Lumber, wood
- 25 Oil palm/palm oil
- 26 Honey or Sugarcane

- 27 Avocado
- 28 Bananas
- 29 Mangoes
- 30 Oranges/Citrus fruits
- 31 Pineapple
- 32 Sugarcane
- 33 Other fruits (specify)

- 34 Other vegetables (specify)
- 35 Grass for feed
- 36 Fodder for feed
- 37 Sucha/Saga
- 88 Fallow
- 89 Grazing

## Section B. Land Use

**Instructions:** For each of the past three years, ask about any practices that were employed on ANY of the household's shambas and/or gardens.

	2004	2005	2006 (Use N/A for practices that are not yet relevant )
1. What was the main tillage method used ?  See codes below			
2. How many complete weedings did you do?			
3. Did you apply any substances to improve soil fertility ? (List all)  See codes below			
4. Before plowing, did you burn the vegetation and/or crop residue on the shamba?  1= Yes 2= No			
5. Which pests/diseases were present on your shamba/garden ? (List all)  See codes below.			
6. What methods did you use to control these pests/diseases? (List all)  See codes below			
7. Did you employ any of the following land improvement practices? (List all) 1. Intercropping with legumes (maharagwe) 2. Intercropping with other crop(s) 3. Fencing or other barriers 4. Crop Rotation 5. Square Yard farming 6. Drainage channels 7. Terraces 8. Planting of grass strips (nebia grass) 9. Other (specify)			
8. Do you have any extra sources of water for irrigation (i.e., non-rain) ?  See codes below.			
9. How many acres of you land did you leave fallow? <b>0 → Next Section</b>			
10. If yes, how many months did you leave this land fallow?			
11. If yes, what type of fallow practice did you use? 1= Natural Fallow 2= Legume cover crop 3= Other cover crop 4= Grazing			
12. If yes, what was the reason for leaving this land fallow? See codes below.			

### Tillage Method

- 1= conventional hand hoeing (jembe)
- 2= plowing with animals
- 3= plowing with mechanical power
- 4= other (specify)

### Soil Fertility Applications

- 1. None
- 2. Animal Manure
- 3. Inorganic (Chemical) fertilizer- basal
- 4. Inorganic (Chemical) fertilizer- top dressing
- 5. Organic fertilizer/ Compost
- 6. Other (specify)

### Pest Codes

- 1 Stock Bora
- 2. Diamond back moth
- 3. Aphids
- 4. Red spider mites
- 5. Powdery mildew
- 6. Bacterial black rot
- 7. Birds, Rodents or Weevils
- 8. Other (Specify)

### Pest Control Practices

- 1. None
- 2. Dawa (Not Otherwise Specified)
- 3. Pesticide
- 4. Herbicide
- 5. Fungicide
- 6. Any type of biological control
- 7. Traps
- 8. Other (Specify)

### Water Source Codes

- 1= None
- 2= Surface Pond
- 3= Nearby Stream
- 4= Harvested
- 5= Bore holes, wells
- 6= Other (specify)

### Fallow Codes

- 1= Lack of funds
- 2= Lack of labor/ time
- 3= To improve soil productivity
- 4= For pest/disease control
- 5= Other (specify)

## Section C. Crop Production

**Enumerator:** All questions refer to the 2005 Agricultural season. Ask only about the major 3-5 crops identified in Section A1.

**Instructions:** Now I would like to ask you about the main crops that you or members of your household were responsible for selling or setting aside for home consumption. Include only the 3-5 major crops identified in Section A.

**Maize crops: Make sure you exclude early year harvests that were from 2004 growing season.**

1. Crop Codes	2. Area under each crop in acres	3. What main seed variety did you use ?  See codes below.	4. What was the source of most of the seed ?  See codes below.	5. Was your harvest of [Crop] sufficient to provide for your household until the next harvest ?  1= Yes 2= No 3= N/A	6. How much <u>quantity</u> of [Crop] did your household <u>produce</u> (or <u>harvest</u> ?) (for sale and for home consumption) last year?  Do not include crop outputs from the <u>long and short rains seasons of 2004</u>		7. How much <u>quantity</u> of [Crop] did your household <u>sell</u> during the long and short rains of 2005?  Do not include crop outputs from the <u>long and short rains seasons of 2004</u>		8. How much <u>income</u> did your household receive from <u>selling</u> this quantity of [Crop]?  Do not include tea bonus.			9. How much <u>quantity</u> of [Crop] did you put aside for home consumption after harvest ?		10. Do you have any of the [Crop] from the 2005 harvest in <u>storage</u> at the present?  1 Yes 2 No →12	11. If you were to sell this stored quantity now, what is the amount you could get?  Amount in KSh	12. Did you process any portion of [Crop] ?  See codes below.
					a. Quantity	b. Crop Unit Code	a. Quantity	b. Crop Unit Code	a. TOTAL Amount (in KSh)	b. Unit price (in KSh)	c. Crop Unit code	a. Quantity	b. Crop Unit Code			

### Crop or use codes

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- 24 Lumber, wood
- 25 Oil palm/palm oil
- 26 Honey or Sugarcane
- 27 Avocado
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- 34 Other vegetables (specify)
- 35 Grass for feed
- 36 Fodder for feed

### Seed Variety Codes

- 1= Local Variety
- 2= 513
- 3= 514
- 4= 614
- 5= 628

### 6= 629

- 7= 9401
- 8= "improved" but do not know variety
- 9= other (specify)

### Seed Source Codes

- 1= Private Retailer
- 2= Seed Company
- 3= NGOs
- 4= Government
- 5= Friend/Relative
- 6= Own harvest
- 8= Other (specify)

### Crop Unit Codes

- 1 Kilograms
- 2 Goro goros (2 Kgs.)
- 3 Debbes
- 4 Liters
- 5 Bunches
- 6 Bags/Sacks
- 7 Pieces
- 8 Tins
- 9 Dozen
- 10 Crate

### Crop Processing Codes

- 1= No Processing
- 2= cleaning/ washing
- 3= shelling/ hulling
- 4= drying
- 5= milling, at home- pounding
- 6= milling, at home- hand mill
- 7= milling, commercial

## Section D. Farm Inputs

Input Number	1. I would like to ask you about different farm inputs you have used since [round 2]. In the past [...] months, have you ...  1 Yes 2 No →Next question	2. How much did you spend on [INPUT] in 2005 (include long and short rains)?  Amount in KSh	3. What main transaction did you use to obtain this input in 2005?  <b>Answer Codes</b> 1= Cash Purchase 2= Loan 3= Barter 4= Grant/gift/free 5= Own harvest	4. How much did you spend (do you plan to spend) on [INPUT] in 2006 (include long and short rains)?  Amount in KSh	5. What main transaction did you use to obtain this input in 2006?  <b>Answer Codes</b> 1= Cash Purchase 2= Loan 3= Barter 4= Grant/gift/free 5= Own harvest
1	Used any hired labor on your shambas/gardens?				
2	Bought any seeds?				
3	Bought any manure for your shambas?				
4	Bought any feed for your livestock?				
5	Had any expenses for maintaining the health of your livestock (insecticide sprays, medicines, veterinary services)?				
6	Had any expenses for building or repairing any pens or fences for your livestock?				
7	Bought fertilizer on your shambas? (for planting, and also top-dressing)				
8	Bought pesticides/herbicides (dawa) for your shambas?				
9	Had expenses for transporting crops?				
10	Had any expenses for transporting any farm inputs?				
11	Had any expenses for transporting livestock?				
12	Bought any fuel for a tractor?				
13	Had any other expenses associated with crop production, such as the purchase of sacks, containers, storage, irrigation, renting of animal traction, renting of tractors?				
14	Had any other expenses associated with livestock production?				

## Section E. Agricultural Help

1.	In 2005, did anyone work on your shambas/gardens without being paid or in exchange for your labour? 1 Yes 2 No → <b>Next Section</b>	
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2. Person Number	3. IRID Code or person who helped	4. In 2005, for <u>how many days</u> did this person work on your shambas/gardens?	5. What activity did this person do on your shamba?  See Codes Below.	6. Did you work for this person in return for his/her work on your shambas/garden?  1 Yes 2 No → <b>End</b>	7. In 2005, for <u>how many days</u> did you work on this person's shamba/garden?
A					
B					
C					
D					
E					

Help Codes: 1 Planting, 2 Weeding, 3 Harvesting, 4 Plowing, 5 Shelling, 6 Other (specify)

## Section F. Livestock Production

**Instructions:** All questions refer to the 2005 Agricultural season. Ask about each type of livestock produced by the household.

1.	In 2005, did your household raise any livestock? 1 Yes 2 No → <b>Next Section</b>	
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Livestock Codes  See codes below.	2. Number owned at start of 2005	3. Were the [Livestock] fed or did they graze ?  1= fed 2= graze → <b>5</b> 3= both 4= other (specify)	4. If [Livestock] were fed, how did you get the food ? 1= cultivated 2= gathered 3= purchased 4= free/ gift 5= other (specify)	5. If [Livestock] grazed, where did they graze ?  1= own land 2= communally owned land 3= public land	6. Did you store/collect manure or other wastes from [Livestock]? 1= Yes 2= No → <b>8</b>	7. Where did you store the manure/waste that was collected from [Livestock] ?  See codes below	8. Do you de-worm the [Livestock]?  1= Yes 2= No	

3 Goats, 4 Sheep, 5 Pigs, 6 Chickens, 7 Other animals (specify)

Storage codes: 1 no storage, 2 open pit, 3 closed container, 4 in the field 5. compost bin 6. slurry pit

**Section G. Agricultural Loans/ Extension**

Instructions:

	In [year], ...	2004	2005	2006
1	<p>...were you visited by or did you speak with an agricultural extension worker?</p> <p>1 Yes 2 No</p>			
2	<p>... did your household borrow money or obtain a loan (cash or in-kind) from an individual or company to support agricultural production?</p> <p>1 Yes 2 No -&gt; <b>END</b></p>			
3	<p>If yes, what was the source of the largest loan?</p> <p>1 government 2 commercial bank 3 local private trader 4 local money lender 5 friend/relative 6 microcredit organization 7 other(specify)</p>			
4	<p>If yes, how did you repay the credit for most of the largest loan?</p> <p>1 paid cash, 2 deducted from crop sales 3 paid in-kind 4 not yet repaid</p>			

## Section H. Changes in Farming Practices

Instructions: Now I would like to ask you about any changes that you have made to your farming practices in the past year.

Enumerator: Do NOT read aloud the answer choices. Listen to the respondent then choose the answer code that best fits the response.

Practice Number	1. I would like to ask you about changes in your farming practices. In the <u>past year</u> , has there been a change in...		2. What changes have you made?		3. What was (were) the reason(s) for the change?
	1 Yes 2 No →Next practice		Answer Codes	Response	See Codes Below
1	... your choice of crops?		1 = shifted towards low input crops, 2 = shifted towards high input crops (e.g., ?) 3 = household now concentrating on subsistence crops, 4 = household has started growing cash crops (e.g., tea)		
2	... your choice of seed varieties?		1= Shifted from local to "improved" variety 2= Shifted from maize variety 614 to another 3= Other change in variety 4= Change in brand or supplier		
3	... how you feed your livestock?		1= shift from relying on grazing to relying on feed 2= shift from relying on feed to relying on grazing 3= household no longer buys feed 4= household no longer gathers grass for feed 5= Other (Specify)		
4	... the amount of labor that you hire to work on your farm?		1 = household engaged in labour exchange, 2= household has stopped labor exchange, 3 = household hires more labor 4= household hires less labor		
5	... the amount of labor wage income derived by this household?		1= Household relies more on wage labor 2= Household relies less on wage labor 3= Other		
6	... any other agricultural practice?				

<b>Reason Codes</b>	4= Increase in hired labor	8= improved wealth status	13= lost access to some crop land
1= Reduced labor force	5= Increase in donated/exchanged labor from another household	9= decline in wealth status	14= lost access to some grazing land
2= Increase in own labor (e.g., health improvement)	6= Increase in productive assets	10= received institutional support	15= able to access credit
3= Increase in household labor (own children, adoption, fosterage)	7= Loss of productive assets	11= lost access to institutional support	16= lost access to credit
		12= acquired more land	17= advice from agricultural extension worker