

Map of land area

ASK THE PERSON MOST KNOWLEDGABLE ABOUT CROP PRODUCTION

1. In the space below, sketch out your farm including all the parcels you own and rent/borrow/sharecrop in or rent/borrow/sharecrop out, how those parcels are shaped, the relative size of those parcels, where they are relative to your home and distance in minutes (one way) to your home. Be sure to include parcels cultivated in both the primary (long rainy) season and the secondary (short rainy) seasons.

Note: A **PARCEL** is a continuous piece of land and should not be split by a river or a path wide enough to fit an ox-cart or vehicle. A parcel can contain one or more plots.

Note: a **PLOT** is defined as a continuous piece of land on which a unique crop or a mixture of crops is grown, under a uniform, consistent crop management system. A plot must be continuous and should not be split by a path of more than one metre in width. Plot boundaries are defined according to the crops grown and the operator.

North



House

West

East

South

Section 2A: AG-MODULE - PLOT DETAILS - [PRIMARY RAINY SEASON]: PRIMARY RAINY SEASON defined as period from March/April 2015 to May/June 2016

ENUMERATOR: ASK THE FOLLOWING FOR EACH PLOT GREATER THAN 1/4 OF AN ACRE (EQUIVALENT TO 1000 SQUARE METERS OR 10000 SQUARE FEET). GO THROUGH THE ENTIRE MODULE ONE PLOT AT A TIME. Ask 2a.1-2a.6 for all plots, regardless of whether they were cultivated or in which season they were cultivated.

	2a.1	2a.2	2a.4	2a.5.1	2a.3	2a.5.2	2a.6	2a.7	2a.8	2a.9	2a.10	2a.11	2a.12
PLOT ID	Confirm and record size of plot [ENUMERATOR: ONLY ASK FOR PLOTS PRODUCED ON DURING THE PRIMARY RAINY SEASON. DEFINED AS: period from March/April to May/June] Units: Acres...1 Hectares...2 Sq. Meters.3	Record the id of the respondent List ID from household roster, section 1 Q2	Who makes the decisions concerning crops to be planted, input use, and the timing of cropping activities on this [PLOT]? 1 = HH male 2 = HH female 3 = Joint HH (male & female) 4 = non-household member 5 = other, specify	How did your household <u>acquire</u> this [PLOT]? Granted by local leaders.....1 Inherited.....2 Bride price.....3 Purchased.....4 Leasehold.....5 Rent Short-term.....6 Farming as a tenant.....7 Borrowed for free.....8 Moved in without permission.....9 Other (specify)...10	[Only ask if 2a.5.1=1, 2, 3, or 4] Who is the primary owner of this [PLOT]? List ID from household roster, section 1 Q2	[Only ask if 2a.5.1=4] How was the [PLOT] purchased? Purchased with title.....1 Purchased without title.....2	In what year did the household acquire this [PLOT]? ENUMERATOR: ENTER 999 IF DOESN'T KNOW	During the PRIMARY RAINY SEASON, was this [PLOT]... READ ANSWERS Cultivated food crops....1 Cultivated fodder crops....2 Rented out...3 Gave out for free.....4 Fallow.....5 Forest /Woodlot....6 Pasture.....7 Other (Specify)....8 If not = 1 or 2, skip to next plot	What is the predominant soil type of this [PLOT]? READ ANSWERS Sandy.....1 Between sandy & clay.....2 Clay.....3 Red Volcanic..4 Other (Specify)...5	What is the <u>slope</u> of this [PLOT]? READ ANSWERS Flat.....1 Slight slope....2 Moderate slope...3 Steep, hilly...4	Is this [PLOT] swamp/wetland? YES...1 NO...0	What <u>systems of irrigation</u> , if any, are on this [PLOT]? READ ANSWERS LIST UP TO 2 Rain-fed/No irrigation..1 Divert stream.....2 Bucket.....3 Hand pump.....4 Treadle pump.....5 Motor pump.....6 Gravity.....7 Other (Specify)...8	What was the last year this [PLOT] was left in fallow? ENTER YEAR, or: Never...0 Doesn't know...999
	Area	Unit											1st
1													
2													
3													
4													
5													
6													

Section 2B: HARVEST - [PRIMARY RAINY SEASON]; PRIMARY RAINY SEASON defined as period from March/April 2015 to May/June 2016.

Only fill Section 2b for plots that were cultivated in the secondary rainy season (2a.7=1 or 2)

PLOT ID	2b.1	2b.2	2b.3	2b.4			2b.5			2b.6			2b.7		2b.8	2b.9	2b.10	2b.11			
	CROP NAME/CODE What crops were planted on this [PLOT] during the PRIMARY RAINY SEASON? REFER TO CROP CODES AT THE END OF THE QUESTIONNAIRE. LIST ALL CROPS IN ORDER OF IMPORTANCE. For each plot, and for each crop on the plot rotate through all the questions before moving to next crop	Do you produce [CROP] on at least a quarter of an acre on the [PLOT]? 0=No → skip to next crop 1=Yes	For the [CROP], what type of crop stand was on the [PLOT]? READ RESPONSES Pure stand...1 Mixed stand...2	How much of the [CROP] was harvested <u>in total</u> from the [PLOT]? FOR ALL APPLICABLE CROPS, MAKE SURE TO ASK WHETHER THE REPORTED VALUE IS SHELLED OR UNSHELLED.	Quantity	Unit	S/U	How much of the harvested [CROP] from [PLOT] during the PRIMARY RAINY SEASON was used for animal feed? IF NOTHING, RECORD ZERO FOR "QUANTITY" FOR ALL APPLICABLE CROPS, MAKE SURE TO ASK WHETHER THE REPORTED VALUE IS SHELLED OR UNSHELLED.	Quantity	Unit	S/U	How much of the harvested [CROP] from [PLOT] during the PRIMARY RAINY SEASON was lost to rotting, insects, rodents, theft, or other ways in the post-harvest period? IF NOTHING, RECORD ZERO FOR "QUANTITY" FOR ALL APPLICABLE CROPS, MAKE SURE TO ASK WHETHER THE REPORTED VALUE IS SHELLED OR UNSHELLED.	Quantity	Unit	S/U	[SKIP if 2b.6=0] What was the reason for loss? READ RESPONSES. LIST UP TO 2. Rotting.....1 Insects.....2 Rodents/Pests...3 Flood.....4 Theft.....5 Other (Specify).6	1st	2nd	Only ask if quantity in 2b.5 does not equal 0. How is the fodder primarily fed to the cattle? 1=Cut& carry 2=Grazed in situ?	Only ask if quantity in 2b.5 does not equal 0. What is the cost per year of growing that fodder?	Only ask if quantity in 2b.5 does not equal 0. In the past year did you sell any of the improved fodder or pasture? 0 = No → skip to next crop 1 = Yes

1= Barley	2= Rice	3= Millet	4= Wheat	5= Maize	6= Oats	7= Sorghum	8=Napier grass
9=Planted grasses	10=Fodder shrubs	11=Other fodder legumes	12= Cabbages	13= Lettuce	14= Capsicum/ Hoho	15= Carrots	16= Cucumber
17= Tomatoes	18= Cauliflower	19= Celery	20= Chillies	21= Onions	22= Spring onions	23= Peas	24= Snow peas
25= French beans	26= Beans	27= Courgettes	28= Eggplants/Brinjal	29= Butternut	30= Pumpkins	31= Soybeans	32= Cowpeas
33= Green grams	34= Dolichos	35= Groundnuts	36= Beetroots	37= Strawberries	38= Melons	39 = Watermelons	40= Cotton
41= Black nightshades	42= Simsim	43= Coriander	44= Sunflowers	45= Amaranthus	46= Flowers/Cut flowers	47= Pyrethrum	48= Yams
49= Arrowroot	50= Cassava	51= Apples	52= Custard Apples	53= Pears	54= Bananas	55= Tree tomatoes	56= Mangoes
57= Passion fruit	58= Pawpaws	59=Pineapple	60= Oranges	61= Tangerine	62= Lemons/limes	63= Avocados	64= Cashew nuts
65= Macadamia	66= Pigeon peas	67= Coffee	68= Tea	69= Sugar cane	70= Tobacco	71= Khat/Miraa	72= Oil palm
73= Castor	74= Woodlot/trees	75= Sisal	76= Potatoes	77= Sweet potatoes	78= Spinach	79= Kale	80=Other Specify

Section 3A: AG-MODULE - PLOT DETAILS - [SECONDARY RAINY SEASON]; SECONDARY RAINY SEASON defined as period from October to November/December 2015.

ENUMERATOR: ASK THE FOLLOWING FOR EACH PLOT GREATER THAN 1/4 OF AN ACRE (EQUIVALENT TO 1000 SQUARE METERS OR 10000 SQUARE FEET). GO THROUGH THE ENTIRE MODULE ONE PLOT AT A TIME.

PLOT ID	3a.0.1	3a.0.2	3a.7	3a.8	3a.9	3a.10	3a.11		3a.12	
	Were crops produced on this plot during the PRIMARY Rainy Season? 0=No → SKIP TO 3a.1 1=Yes → Skip to 3a.0.2	During the SECONDARY RAINY SEASON, was this [PLOT]... READ ANSWERS Cultivated food crops....1 Cultivated fodder crops....2 Rented out...3 Gave out for free.....4 Fallow.....5 Forest /Woodlot....6 Pasture.....7 Other (Specify)....8 If not = 1 or 2, skip to next plot	During the SECONDARY RAINY SEASON, was this [PLOT]... READ ANSWERS Cultivated food crops....1 Cultivated fodder crops....2 Rented out...3 Gave out for free.....4 Fallow.....5 Forest /Woodlot....6 Pasture.....7 Other (Specify)....8 If not = 1 or 2, skip to next plot	What is the predominant soil type of this [PLOT]? READ ANSWERS Sandy.....1 Between sandy & clay.....2 Clay.....3 Red Volcanic..4 Other (Specify)..5	What is the <u>slope</u> of this [PLOT]? READ ANSWERS Flat....1 Slight slope....2 Moderate slope....3 Steep, hilly....4	Is this [PLOT] swamp/wetland? YES...1 NO...0	What systems of <u>irrigation</u> , if any, are on this [PLOT]? READ ANSWERS LIST UP TO 2 Rain-fed/No irrigation..1 Divert stream.....2 Bucket.....3 Hand pump.....4 Treadle pump.....5 Motor pump.....6 Gravity.....7 Other (Specify)...8	1st	2nd	What was the last year this [PLOT] was left in fallow? ENTER YEAR, or: Never...0 Doesn't know...999
1										
2										
3										

Section 3B: HARVEST - [SECONDARY RAINY SEASON]; SECONDARY RAINY SEASON defined as period from October to November/December 2015.

Only fill Section 3b for plots that were cultivated in the secondary rainy season (3a.0.2 = 1 or 2, or 3a.7=1 or 2)

PLOT ID	3b.1 CROP NAME/CODE What crops were planted on this [PLOT] during the SECONDARY RAINY SEASON? REFER TO CROP CODES AT THE END OF THE QUESTIONNAIRE. LIST ALL CROPS IN ORDER OF IMPORTANCE. For each plot, and for each crop on the plot rotate through all the questions before moving to next crop	3b.2 Do you produce [CROP] on at least a quarter of an acre on the [PLOT]? 0=No → skip to next crop 1=Yes	3b.3 For the [CROP], what type of <u>crop stand</u> was on the [PLOT]? READ RESPONSES Pure stand...1 Mixed stand...2	3b.4			3b.5			3b.6			3b.7		3b.8 Only ask if quantity in 3b.5 does not equal 0. How is the fodder primarily fed to the cattle? 1=Cut& carry 2=Grazed in situ?	3b.9 Only ask if quantity in Q5 does not equal 0. What is the cost per year of growing that fodder?	3b.10 Only ask if quantity in 3b.5 does not equal 0. In the past year did you sell any of the improved fodder or pasture? 0 = No → skip to next crop 1 = Yes	3b.11 Only ask if quantity in 3b.5 does not equal 0. If Yes, What was the revenue for the improved fodder or pasture?																																																													
				Quantity	Unit	S/U	Quantity	Unit	S/U	Quantity	Unit	S/U	1st	2nd																																																																	
1= Barley	2= Rice	3= Millet	4= Wheat	5= Maize	6= Oats	7= Sorghum	8= Napier grass	9=Planted grasses	10=Fodder shrubs	11=Other fodder legumes	12= Cabbages	13= Lettuce	14= Capsicum/ Hoho	15= Carrots	16= Cucumber	17= Tomatoes	18= Cauliflower	19= Celery	20= Chillies	21= Onions	22= Spring onions	23= Peas	24= Snow peas	25= French beans	26= Beans	27= Courgettes	28= Eggplants/Brinjal	29= Butternut	30= Pumpkins	31= Soybeans	32= Cowpeas	33= Green grams	34= Dolichos	35= Groundnuts	36= Beetroots	37= Strawberries	38= Melons	39= Watermelons	40= Cotton	41= Black nightshades	42= Simsim	43= Coriander	44= Sunflowers	45= Amaranthus	46= Flowers/Cut flowers	47= Pyrethrum	48= Yams	49= Arrowroot	50= Cassava	51= Apples	52= Custard Apples	53= Pears	54= Bananas	55= Tree tomatoes	56= Mangoes	57= Passion fruit	58= Pawpaws	59=Pineapple	60= Oranges	61= Tangerine	62= Lemons/limes	63= Avocados	64= Cashew nuts	65= Macadamia	66= Pigeon peas	67= Coffee	68= Tea	69= Sugar cane	70= Tobacco	71= Khat/Miraa	72= Oil palm	73= Castor	74= Woodlot/trees	75= Sisal	76= Potatoes	77= Sweet potatoes	78= Spinach	79= Kale	80=Other Specify

Section 4: Livestock and cattle: herd structures and flows

4a.1		4a.2		4a.3	
Indicate the numbers of animals for the different species owned by the household		Number owned by the household and kept locally (total)		Number owned but kept elsewhere [b=c+d]	
Cattle	Local (for instance, Zebu and Boran)	Cattle	Local (for instance, Zebu and Boran)	Cattle	Local (for instance, Zebu and Boran)
	Cross/ exotic* (for instance Fresian/Holstein, Ayshire, Jersey, Guernsey, or crosses)		Cross/ exotic* (for instance Fresian/Holstein, Ayshire, Jersey, Guernsey, or crosses)		Cross/ exotic* (for instance Fresian/Holstein, Ayshire, Jersey, Guernsey, or crosses)

* “Cross” refers to a cross-bred animal which is part-exotic.

4b.1	4b.2	4b.2.1	4b.3	4b.4	4b.5	4b.6	4b.7	4b.8	4b.9	4b.10	4b.11	4b.12	4b.13
Regarding your cattle, what breeds do you own? [Select all that apply] 1=Fresian or Holstien 2=Ayshire 3=Guernsey 4=Jersey5=Zebu 6=Boran 7=Crossed breed 8=other (specify)	What type of [breed] do you own? [select all that apply] ENUMERATOR: Collect information for all the breeds listed in 4b.1. Ask all questions for each breed before moving to next breed. 1= males over 1 year old 2= cows (calved at least once) 3= heifers(female ≥1yr, have not calved 4= male or female calves (between 8 wks & <1yr) 5= pre weaning males or females (<8 wks)	How many of [TYPE-BREED] do you currently own?	Have you purchased or obtained any [TYPE-BREED] cattle or calf born in the last 12 months 0 = No → Skip to 4b.6 1 = Yes (*)	How did you purchase or obtain the [TYPE-BREED]? 1 = Bought from smallholder farm 2 = Bought from individual trader/broker 3 = Loan from project 4 = Gift from relatives/ others 5 = Obtained as dowry 6= Birth/ born on farm 7=Other (specify) (*)	How many [TYPE-BREED] animals did you purchase or obtain? (*)	Have any [TYPE-BREED] exited (Except death) the household herd during the past 12 months? 0 = No → SKIP TO Section 5 1 = Yes (*)	How many [TYPE-BREED] animals exited? (*)	How did [TYPE-BREED] exited [SELECT ALL THAT APPLY] 1 = Sale (live animals) 2 = Slaughter for sale 3 = Slaughter - household needs because sick 4= Slaughter 5 = Given away (e.g. dowry) 6 = Stolen 7 = Other, specify (*)	If 4b.8 >=3 → SKIP TO Section 5 If 4b.8 =1 or 2, then ask: For the MOST RECENT sale of [TYPE-BREED] Purpose of selling [TYPE-BREED] 1 = To meet planned household expenses 2 = To meet emergency household expenses 3= Livestock trading as a business 4= Culling because not productive 5= Culling because sick 6 = Other: (specify in cell)	Average price per [TYPE-BREED] [Kshs]	Where [TYPE-BREED] sold? 1=Farm gate 2=Village/local general market 3 = Nearest livestock market 4= Abattoir / butchery 5=Other, specify	To whom [TYPE-BREED] sold? 1= other farmer 2= trader 3= butcher 4= other, specify	Who controlled the money from the sale of [TYPE-BREED]? 1 = household male 2 = household female 3 = joint household (male & female) 4 = non-household member 5 = Other, specify

NOTE: (*) Collect information for all the combinations of breeds and types listed in 4b.1 and 4b.2. Ask all questions for the breed-type before asking about the next breed-type

Section 5: Access to, and use of, livestock related technology and inputs relative to cattle

5.1	5.2 Breeding services [for a., b., c., and d rotate through for Breeding Services: Own Bull Service, Other Bull Service, AI Service]
<p>Do you keep regular monitoring of your cattle (breeding/ vaccination etc.)?</p> <p>0 = No 1 = Yes</p>	<p>a. Is the technology for [BREEDING SERVICE] available?</p> <p>0 = No; 1 = Yes. If No skip to next [BREEDING SERVICE]</p> <hr/> <p>b. What is your usual source of [BREEDING SERVICE]?</p> <p>0=Have not used [BREEDING SERVICE] before →If 0 skip to next [BREEDING SERVICE]</p> <p>1= own bull 2= other farmer 3= bull schemes 4= private AI provider</p> <p>5= government/ public AI provider 6= project/ NGO AI provider 7= coop/ group AI provider 8= other, specify</p> <hr/> <p>c. Have you used this [BREEDING SERVICE] in the last 12 months?</p> <p>0 = No 1 = Yes If No skip to next [BREEDING SERVICE]</p> <hr/> <p>d. Who made the decision to use the [BREEDING SERVICE]/ [BREEDING SERVICE] provider?</p> <p>1 = household male 2 = household female 3 = joint household (male & female) in HH 4 = non-household member 5 = other, specify</p>

5.3 Animal health services [for a., b., c., d, and e rotate through for Animal Health Services: Anthelmintics (deworming), Tick Control, Vaccination, Curative Treatment]	
a. Is the technology [ANIMAL HEALTH SERVICES] available? 0 = No; 1 = Yes If No skip to next [ANIMAL HEALTH SERVICES]	
b. Against what diseases? [SKIP IF ANIMAL HEALTH SERVICES=Anthelmintics (deworming), Tick control, or Other, specify] 0=I don't know 1= Tick-borne disease (East coast fever, Anaplasmosis, Babesiosis etc) 2=Other vector-borne disease (Trypanosomosis) 3=Notifiable diseases (Foot & mouth disease, Lumpy skin disease, Anthrax, Rabies etc) 4 Routine management-related and controllable diseases (Foot rot, Mastitis, worms, bloat etc) 5= Nutrition diseases and complications (e.g. Milk fever) 6= General frequent infections (e.g. Respiratory/ Pneumonia, Diarrhoea) 7=Skin problems (e.g Mange etc) 8=Other specify	
c. When was the last [ANIMAL HEALTH SERVICES] intervention? (MM/YY) (00/00 if NEVER) →If 00/00 skip to next [ANIMAL HEALTH SERVICES]	
d. Where do you usually get this [ANIMAL HEALTH SERVICES]? 1= Self/ Neighbour with professional advice 2= Self/ Neighbour without professional advice 3= Animal health service provider/paravet 4= Government veterinarian 5= Project/ NGO staff 6= coop/ group staff 7= Agrovet shop 8=other, specify	
e. Who made the decision to use the [ANIMAL HEALTH SERVICES] / [ANIMAL HEALTH SERVICES] provider? 1 = household male 2 = household female 3 = joint household (male & female) in HH 4 = non-household member 5 = other, specify	

5.4 Feeding and water

Feeding system- main system for keeping cattle		
For 5.4.0 and 5.4.1. rotate through CATTLE-TYPE Options: [Cattle Local Breed AND Cattle Cross/Exotic] Local refers to Zebu and Boran Cattle Cross/Exotic refers to Fresian/Holstein, Ayshire, Jersey, Guernsey, or crosses	5.4.0 What is the main system for keeping [CATTLE-TYPE] in the rainy season? 1 = Only grazing (free-range or tethered) 2 = Mainly grazing with some feeding in a paddock, boma, or stall 3= Mainly paddock, boma, or stall feeding with some grazing 4=Only paddock, boma, or stall feeding (zero grazing)	5.4.1. What is the main system for keeping [CATTLE-TYPE] in the dry season? 1 = Only grazing (free-range or tethered) 2 = Mainly grazing with some feeding in a paddock, boma, or stall 3= Mainly paddock, boma, or stall feeding with some grazing 4=Only paddock, boma, or stall feeding (zero grazing)

5.4.2a If 5.4.0 or 5.4.1 = 2, 3, or 4 for either [CATTLE-TYPE] otherwise skip to 5.4.3	5.4.2b If 5.4.0 or 5.4.1 = 2, 3, or 4 for either [CATTLE-TYPE]	5.4.2c If 5.4.0 or 5.4.1 = 2, 3, or 4 for either [CATTLE-TYPE]	5.4.2d If 5.4.0 or 5.4.1 = 2, 3, or 4 for either [CATTLE-TYPE]
In what year did you build your paddock, boma, or stall?	What type of roof does the paddock, boma, or stall have? 1= Without roof 2= Under semi-permanent roof ("makuti", thatch etc.) 3 = Under permanent roof (zinc "mabati", concrete etc.)	What is the floor of the paddock, boma, or stall mainly constructed from? 1= Soil 2= Concrete 3 = Stone 4 = Other (specify)	In the paddock, boma, or stall have you constructed a feeding trough? 1=Yes 0=No

5.4.3		
1.) Do you purchase fodder? 0 = No→5.4.4 1 = Yes	2.) Which ones? 1= Napier grass 2= Planted grasses (e.g., Rhodes grass) 3=Fodder maize. 4=Fodder shrubs (e.g., Calliandra, Sesbania, Sesbania, Lucaenia) 5=Other fodder legumes (e.g., Desmodium, lucern, vetch) 6=Other (specify)	3.) Where purchased? 1= other farmers 2= market, trader 3= other, specify

	5.4.4		
For 5.4.4.1, 5.4.4.2, 5.4.4.3 rotate through CATTLE-TYPE Options: [Cattle Local Breed AND Cattle Cross/Exotic] Local refers to Zebu and Boran Cattle Cross/Exotic refers to Fresian/Holstein, Ayshire, Jersey, Guernsey, or crosses	1.) Do you feed [CATTLE-TYPE] crop residues? 0 = No → 5.4.5 1 = Yes	2.) Which ones? 1= green/dry maize stovers and thinnings 2= cereal(wheat,barley,rice etc) straws and millet,sorghum stalks 3=Legume (beans,cow peas,soya etc)haulms 4=Root and tubers peelings (potato,cassava,bananas etc) 5=Crop by products (sweet potato vines, cassava leaves etc) 6=Other specify ____	3.) Are they mainly 1=grown 2=Purchased

	5.4.5						
For 5.4.5.1 - 5.4.5.7 rotate through CATTLE-TYPE Options: [Cattle Local Breed AND Cattle Cross/Exotic] Local refers to Zebu and Boran Cattle Cross/Exotic refers to Fresian/Holstein, Ayshire, Jersey, Guernsey, or crosses	1.) Do you feed [CATTLE-TYPE] concentrate feeds, by- products and mineral supplements? 0 = No → 5.4.6 1 = Yes	2.) Which ones? 1= Commercial dairy meal 2= Mineral blocks 3=Nutrient Supplement 4= Bran (Maize, wheat) 5=Maize germ 6=oilseed by-product (Sesame seed, cotton seed, copra, sunflower etc.) 7=Agro industrial by products (vegetable waste, brewer's waste etc.) 8=other specify	3.) Which animal types are fed with it? 1= all 2= cows only 3= lactating cows only 4= calves only 5= other, specify	4.) Kgs fed/ animal/ day (when fed)	5.) How many months/ year do you feed these?	6.) Where purchased? 1= agro vet shop 2=other farmers 3= market, trader 4= other, specify	7.) Where did you get the info? [Mark all that apply] 1=extension agent 2= Research/ training institute 3= coop or group 4= Private ext. provider e.g. agro vet shop/company 5 = NGO/Project 6 = SDCP 7 = Other Farmer 8= other, specify

5.4.6	5.4.7	5.4.8.1	5.4.8.2	5.4.8.3	5.4.8.4
Do you vary the feeding depending on stage of lactation? 0 = No 1 = Yes	Do you monitor your cows' milk production? 0 = No 1 = Yes	Was water available to your cattle throughout the day yesterday? 0 = No 1 = Yes	Is water always available to your cattle throughout the year? 0 = No 1 = Yes	If 5.4.8.1=0 OR 5.4.8.2=0 How frequently do you water your cattle in a day? [____] (number of times/ day) during rainy season [____] (number of times/ day) during dry season	What is the main source of the water? 1= Carted to farm 2= On-farm well / bore hole 3 = Piped public water supply 4 = Closest river/stream ____ 5 = Other (specify)

5.4.9 Are there months during the year when you experience a shortage of feeds produced from your farm? 1 = Yes 2 = No → skip to 5.4.11	5.4.10 If Yes, when? [Select all that apply]	
	1=January 2= February 3=March 4=April 5=May 6=June	7=July 8=August 9=September 10=October 11=November 12=December

5.4.11 How much did you spend on the following dairy production activities **last 7 days**? If N/A put 0.099

Item	Cost (KSH)
Non-Household Labour	
Purchased Fodder	
Growing Fodder	
Purchased Crop Residues	
Concentrate feeds and by products	
Mineral Supplements	
Water	
Marketing	
Transporting Milk	
Transporting Inputs	

5.4.12 In the **last 12 months**, how much did you spend on the following dairy production activities? If N/A put 0.099

Activity	Cost (KSH)
Own Bull Service	
Other Bull Service	
AI	
Animal Health Services (treatment or control) – Government Veterinarian/AHA	
Animal Health Services (treatment or control) – Cooperative Veterinarian	
Animal Health Services (treatment or control) – SDCP Veterinarian	
Animal Health Services (treatment or control) –Private Veterinarian/AHA	
Animal Health Services (treatment or control) – Traditional Herbalists	
Animal Health Services (treatment or control) – Neighbour	
Vaccinations	
Tick control	
De-worming (Anthelmintics)	
Curative Treatment	

5.5 Other services

5.5.a	5.5.b	5.5.c	5.5.d	5.5.e	5.5.f	5.5.g	5.5.h	5.5.i	5.5.j
Type of extension visit, field day, or other demonstration Rotate through the questions for the t [TYPES] listed below:	Are extension visits for [TYPE] available? 0=No → Skip to 5.5.e 1=Yes	Have you attended an extension visit for [TYPE] in the last 12 months? 0=No →Skip to 5.5.e 1=Yes	Who requested/received the extension visit for [TYPE]? 1 = household male 2 = household female 3 = joint household (male & female) in HH 4 = non-household member 5 = other, specify	Are field days for [TYPE] available? 0=No → Skip to 5.5.h 1=Yes	Have you attended a field day for [TYPE] in the last 12 months? 0=No→ Skip to 5.5.h 1=Yes	Who requested/received the field days for [TYPE]? 1 = household male 2 = household female 3 = joint household (male & female) in HH 4 = non-household member 5 = other, specify	Are other demonstrations for [TYPE] available? 0=No → Skip to next TYPE 1=Yes	Have you attended any other demonstration for [TYPE] in the last 12 months? 0=No→ Skip to next TYPE 1=Yes	Who requested/received the other demonstrations for [TYPE]? 1 = household male 2 = household female 3 = joint household (male & female) in HH 4 = non-household member 5 = other, specify
Livestock- general									
Cattle									
Crop									

	5.5.k	5.5.l	5.5.m	5.5.n	5.5.o	5.5.p	5.5.q	5.5.r
Type of <u>Trainings</u> Rotate through the questions for the [TYPES] listed below:	Have you ever received information regarding [TYPE]? 0=No → skip to next TYPE 1=Yes	When did you first receive this information on [TYPE]? 1=within last 12 months 2= within last 5 years 3= within last 10 years 4= more than 10 years ago	From whom did you FIRST receive this information on [TYPE]? 1=extension agent 2= Research/ training institute 3= coop or group 4= Private ext. provider e.g. agro vet shop/company 5 = NGO/Project 6 = SDCP 7= Other farmer 8= other, specify	How many trainings related to [TYPE] have you attended? [If 0 → skip to 5.5.r]	When was the last training for [TYPE]? 1=within last 12 months 2= within last 5 years 3= within last 10 years 4= more than 10 years ago	Who provided the last training in [TYPE]? 1=extension agent 2= Research/ training institute 3= coop or group 4= Private ext. provider e.g. agro vet shop/company 5 = NGO/Project 6 = SDCP 7= other, specify	Who requested the last training in [TYPE]? 1 = household male 2 = household female 3 = joint household (male & female) in HH 4 = non-household member 5 = other, specify	Have you practiced or adopted [TYPE]? 0=No 1=Yes
Livestock best practices								
Improved Fermentation of Milk best practices								
Other milk processing and quality control best practices								
Cattle best practices								
Crop best practices								
Organisational, managerial, bookkeeping, accounting, and financial planning								
Fodder Establishment								
Hay Making								
Silage Making								
Use of chaff cutter								
Conservation (crop residues)								
Animal registration								
Fresh milk marketing								
Value addition marketing (e.g., mala, yoghurt)								
Group/Cooperative Milk Marketing								
Market Information Searching								

	5.5.s	5.5.t	5.5.u	5.5.v	5.5.w	5.5.x	5.5.y	5.5.z
<p>Type of <u>Financial Service</u></p> <p>Rotate through the questions for the [TYPES] listed below:</p>	<p>Have you ever received information regarding [TYPE]?</p> <p>0=No → skip to next TYPE 1=Yes</p>	<p>When did you first receive this information on [TYPE]?</p> <p>1=within last 12 months 2= within last 5 years 3= within last 10 years 4= more than 10 years ago</p>	<p>From whom did you first receive this information on [TYPE]?</p> <p>1=extension agent 2= Research/ training institute 3= coop or group 4= Private ext provider e.g agro vet shop/company 5 = NGO/Project 6 = SDCP 7= Other farmer 8= other, specify</p>	<p>How many trainings related to [TYPE] have you attended?</p> <p>[If 0 → skip to 5.5.z]</p>	<p>When was the last training for [TYPE]?</p> <p>1=within last 12 months 2= within last 5 years 3= within last 10 years 4= more than 10 years ago</p>	<p>Who provided the last training in [TYPE]?</p> <p>1=extension agent 2= Research/ training institute 3= coop or group 4= Private ext. provider e.g. agro vet shop/company 5 = NGO/Project 6 = SDCP 7= other, specify</p>	<p>Who requested/received [TYPE] financial service?</p> <p>1 = household male 2 = household female 3 = joint household (male & female) in HH 4 = non-household member 5 = other, specify</p>	<p>Have you practiced or adopted [TYPE] in your livestock operations?</p> <p>0=No 1=Yes</p>
Savings								
Credit								
Microfinance								
Saving associations								
Health insurance								
Domestic/home insurance								
Crop insurance								
Livestock insurance								

	5.5.aa	5.5.ab	5.5.ac	5.5.ad	5.5.ae	5.5.af	5.5.ag	5.5.ah
<p>Type of <u>Power/Water</u></p> <p>Rotate through the questions for the [TYPES] listed below:</p>	<p>Have you ever received information regarding [TYPE]?</p> <p>0=No → skip to next TYPE 1=Yes</p>	<p>When did you first receive this information on [TYPE]?</p> <p>1=within last 12 months 2= within last 5 years 3= within last 10 years 4= more than 10 years ago</p>	<p>From whom did you first receive this information on [TYPE]?</p> <p>1=extension agent 2= Research/ training institute 3= coop or group 4= Private ext provider e.g agro vet shop/company 5 = NGO/Project 6 = SDCP 7= Other farmer 8= other, specify</p>	<p>How many trainings related to [TYPE] have you attended?</p> <p>[If 0 → skip to 5.5.ah]</p>	<p>When was the last training for [TYPE]?</p> <p>1=within last 12 months 2= within last 5 years 3= within last 10 years 4= more than 10 years ago</p>	<p>Who provided the last training in [TYPE]?</p> <p>1=extension agent 2= Research/ training institute 3= coop or group 4= Private ext provider e.g agro vet shop/company 5 = NGO/Project 6 = SDCP 7= other, specify</p>	<p>Who requested/received information on [TYPE]?</p> <p>1 = household male 2 = household female 3 = joint household (male & female) in HH 4 = non-household member 5 = other, specify</p>	<p>Have you practiced or adopted [TYPE]?</p> <p>0=No 1=Yes</p>

Energy Saving Jiko								
Biogas								
Water Harvesting								

5.6 Membership of groups

5.6.1 Is there any household member who is a member of a group? Yes = 1 No = 0	5.6.2 Type of group [Mark the <u>most</u> important one] 1= social/ welfare & community development groups 2= savings and credit groups/Sacco 3= agricultural producer groups 4= livestock producer groups 5= agricultural marketing groups 6= livestock marketing groups 7= Other, specify	5.6.3. Functions that this group performs for you [SELECT all that apply] 1= provides access to milk market 2= provides access to inputs and services for dairy 3= provides training/ advisory for dairy 4= provides access to market for crops 5= provides access to inputs and services for crops 6= provides training/ advisory for crops 7= provides ways to save money and get credit 8= social functions and networking 9=other specify	5.6.5 Does your primary group belong to a cooperative society? Yes = 1 No = 0

6.0 Milk production and sale- milk from cattle only

6.0.1 As far as you can remember, in what year did you first produce milk?	6.0.2. When you were a child, did any of your family members produce milk? 0=No 1=Yes	6.0.3. When your spouse was a child, did any of his/her family members produce milk? 0=No 1=Yes 999=Don't Know	6.0.4. Currently, do any of your parents, brothers or sisters produce milk? 0=No 1=Yes

6.1 Milk production

What type of cows are currently milking? SELECT ALL THAT APPLY 1=Exotic (e.g. Fresian/Holstein, Ayshire, Guernsey, Jersey) 2=Local (e.g. Zebu or Boran) 3=Crossed breed 4=No Cows Currently Giving Milk [IF TYPE = 4, skip to next section]			
h. Number of [TYPE] milking cows If only one type of milking cow owned, randomly select 3 of that type. If three types of milking cows are owned, randomly select one from each type. If only two types of milking cows are owned, randomly select two from			

the larger group and one from the smaller group. If only two types are owned and there are equal numbers of each type, randomly select the type to have two cows selected with a coin flip.			
Individual animals should be selected by blind draw of a list of milking cows of each type.			
	cow 1	cow 2	cow 3
a. What Type is Cow [#]? 1=Exotic (e.g. Fresian/Holstein, Ayshire, Guernsey, Jersey) 2=Local (e.g. Zebu or Boran) 3=Crossed breed 4=No More Milking Cows [IF TYPE = 4, skip to next section]			
b. Age at first calving (months)			
c. Last calving date (MM/YY)			
d. Parity (number of live and/or still-births)			
e. Calving interval - if this is not the first calving (months). If first calving put 999			
f. Lactation length (number of months cow is milked between 2 calvings)			
g. Total Daily Milk Production (morning plus evening) in litre	At Calving - initial milk production		
	Yesterday		

6.2 Milking practices

6.2.1	6.2.2		6.2.3	6.2.4	6.2.5	6.2.6
How many of your cows have one or more blind quarters?	How many of your cows have had mastitis (unusual looking milk or inflamed udder) in the last 12 months?	For 6.2.3 to 6.2.6, rotate through the practices below:	When you milk cows do you use the practice [PRACTICE]? 0=No → skip to next [PRACTICE] 1=Yes	How often do you use this [PRACTICE]? 1 Every day 2 Weekly 3 =At each milking 4=Other specify	What type of costs are associated with [PRACTICE]? 1= recurrent costs 2= yearly	For how many years has [PRACTICE] been adopted?
		1. Cleaning of milking area				
		2. Feeding off the ground in a trough or pot				
		3. Cleaning of hands before milking				
		4. Cleaning of hands after milking				
		5. Cleaning the cows teat before milking				

Fresh Milk

6.3.1	6.3.2	6.3.3	6.3.4	6.3.5	6.3.6	6.3.7
<p>Yesterday did you sell milk [TIME OF DAY]</p> <p>Program [TIME OF DAY] with options: In the morning In the evening</p> <p>0=No → Skip to next [TIME OF DAY] 1=Yes → Rotate through questions</p>	<p>To whom did you sell milk [TIME OF DAY]</p> <p>[select all that apply]</p> <p>1=Individual consumers 2=Private milk-traders 3=Dairy co-op/ group with chilling plants 4= Dairy co-op/ group without chilling plants 5=Privately owned chilling plants 6=Other (specify)</p>	<p>In litres, how much milk [TIME OF DAY] did you sell to [BUYERS – use code from Q6.3.2]</p>	<p>What was the average selling price/litre (KSH) for the milk [TIME OF DAY] that you sold to [BUYERS – use code from Q6.3.2]</p>	<p>Who manages the money for the milk [TIME OF DAY] sold to [BUYERS – use code from Q6.3.2]</p> <p>1 = household male 2 = household female 3 = joint household (male & female) 4 = non-household member 5=Other (specify)</p>	<p>What is the distance to delivery point (km) for [BUYERS – use code from Q6.3.2] of milk [TIME OF DAY]</p> <p>(If Buyer collects at farm gate, enter 999)</p>	<p>What mode of transport did you use yesterday when selling milk [TIME OF DAY] to [BUYERS – use code from Q6.3.2]?</p> <p>1= hand 2 = Bicycle 3= van/pick-up 4= Buyer collects at farm gate 5=Other</p>

6.3.8: Did anyone in the household consume milk yesterday? 0=No→ Skip to 6.3.10; 1=Yes

6.3.9: How much milk in litres did all household members consume yesterday?

6.3.10: Was any fresh milk lost yesterday? 0=No → Skip to 6.3.12; 1=Yes

6.3.11: How much milk (in Litres) was lost?

Fermented Milk

6.3.12	6.3.13	6.3.14	6.3.15	6.3.16	6.3.17	6.3.18
<p>Yesterday did you sell fermented milk [TIME OF DAY]</p> <p>Program [TIME OF DAY] with options: in the morning in the evening</p> <p>0=No → Skip to next [TIME OF DAY] 1=Yes → Rotate through questions</p>	<p>To whom did you sell fermented milk [TIME OF DAY]</p> <p>[select all that apply]</p> <p>1=Individual consumers 2=Private milk-traders 3= Cooperative 4=Other (specify)</p>	<p>In litres, how much fermented milk [TIME OF DAY] did you sell to [BUYERS – use code from Q6.3.13]</p>	<p>What was the average selling price/litre (KSH) for the fermented milk [TIME OF DAY] that you sold to [BUYERS – use code from Q6.3.13]</p>	<p>Who manages the money for the fermented milk [TIME OF DAY] sold to [BUYERS – use code from Q6.3.13]</p> <p>1 = household male 2 = household female 3 = joint household (male & female) 4 = non-household member 5 = Other, specify</p>	<p>What is the distance to delivery point (km) for [BUYERS – use code from Q6.3.13] of fermented milk [TIME OF DAY]</p> <p>(If Buyer collects at farm gate, enter 999)</p>	<p>What mode of transport did you use yesterday when selling fermented milk [TIME OF DAY] to [BUYERS – use code from Q6.3.13]?</p> <p>1= hand 2 = Bicycle 3= van/pick-up 4= Buyer collects at farm gate 5=Other</p>

- 6.3.19: Did anyone in the household consume fermented milk yesterday? 0=No → Skip to 6.3.21; 1=Yes
 6.3.20: How much fermented milk in litres did all household members consume yesterday?
 6.3.21: Was any fermented milk lost yesterday? 0=No → Skip to 6.4; 1=Yes
 6.3.22: How much milk (in Litres) was lost?
 6.4.1: Do you have a dunging area [___] 0=No → Skip to 6.4.3; 1 = Yes
 6.4.2: What type of dunging area do you use? 1= Deep litter; 2= regularly clean
 6.4.3: Do you store cattle manure before application to your field? 1 = Yes; 0= No

7. Sources of income

Have main respondent estimate income sources from all members of the household

<p>7.1 From what sources did anyone in the household earn income in last 1 month?</p> <p>[SELECT ALL THAT APPLY]</p> <p>READ OUT ALL OPTIONS</p> <p>Note to programmer: Allow to select first the types of income sources and then rotate the questions over following questions 7.2 and 7.3</p>	<p>7.2 Who mainly earns/ controls this [INCOME SOURCE]? (code)?</p> <p>1 = household male 2 = household female 3 = joint household (male & female) 4 = non-household member</p> <p>Rotate through [Income Sources] selected in 7.1</p>	<p>7.3 What was Total HH income in past 1 year from this [INCOME SOURCE]?</p> <p>(KSH)</p> <p>Enter 0.099 if farmer has income from source but cannot estimate the value</p> <p>Rotate through [Income Sources] selected in 7.1</p>
Sale of livestock and livestock products other than cattle		
Sale of other cattle products (e.g. ghee, manure, hides & skin)		
Sale of agricultural products (crops/ vegetable / fruit)		
Trading in livestock and livestock products (not own produce)		
Trading in agricultural products (excluding livestock!) (not own produce)		

F. Red meat-beef, pork, lamb, goat, rabbit wild game, liver, kidney, heart, or other organ meats		
G. Poultry including chicken, duck, other poultry		
H. Eggs		
I. Fresh or dried fish or shellfish		
J. Milk, cheese, yogurt, or other milk product		
K. Oils and fats		
L. Sweets, sugar, honey		
M. Any other foods, such as condiments, coffee, tea including milk in tea		

Section 9: Assets Inventory

ASSET ID	Asset name	9.1	ASSET ID	Asset name	9.1	ASSET ID	Asset name	9.1
		Does the household own a [ITEM]?			Does the household own a [ITEM]?			Does the household own a [ITEM]?
		0=no → NEXT ITEM 1=yes			0=no →NEXT ITEM 1=yes			0=no →NEXT ITEM 1=yes
1	Plough		24	Carpentry Plane		47	Stove (gas/electric)	
2	Animal cart		25	Fishing Net		48	Refrigerator	
3	Wheelbarrow		26	Hunting Gun		49	Deep Freezer	
4	Planter		27	Small/Hand Driven Tractor		50	AC/Ventilator/Fan	
5	Knapsack sprayer		28	4-Wheel Tractor		51	Electric iron	
6	Motorized sprayer		29	Chaff cutter		52	Non-Electric iron	
7	Thresher		30	Greenhouse		53	Knitting Machine	
8	Grinder		31	Irrigation equipment		54	Pvt. water pump	

9	Hand Hammer Mill		32	Water tank		55	Sewing machine	
10	Grinding Hammer Mill (Powered)		33	Bed		56	Generator	
11	Rump Presses/Oil Expeller		34	Mattress		57	Mower	
12	Sheller		35	Mosquito net		58	Bicycle	
13	Watering can		36	Table		59	Scotch Cart	
14	Hoe (Jembe)		37	Sofa/lounge set		60	Motor vehicle	
15	Machete (Panga)		38	Radio/stereo		61	Canoe	
16	Axe		39	TV		62	Boat	
17	Sickle		40	DVD/VCR player		63	Oxen	
18	Cattle Pen		41	Computer/laptop		64	Donkey/Horses	
19	Trough		42	Cellular Phone		65	Goat	
20	Pick		43	Smart phone		66	Sheep	
21	Hammer		44	Solar Panel		67	Poultry	
22	Shovel/Spade		45	Watch		68	Pig	
23	Hand saw		46	Clock		69	Rabbits	

Section 10. Household amenities and conditions

No	Question	Category	Code
10.1	On what basis do you occupy the dwelling you live in? Is it...?	1=Owner-occupied 2=Rented 3=Provided by employer 4=Provided by relative/friend	
10.2	How many rooms are there excluding bathrooms/toilets?	Number of rooms	
10.3	What is the type of shelter?	1=Traditional house/hut 2=Other 3=Temporary structure/shack 4=Single room in a larger dwelling or backyard 5=Hostel in an industrial/farming compound 6=Non-traditional formal house 7=Flat in a block of flats 8=Room in a hotel/residential hotel	
10.4	What kinds of materials is your dwelling made of?	(A) ROOF 1=Thatch or grass 2=Shingles 3= Plastic sheets 4= Multiple materials 5= Metal, tin or zinc 6=Asbestos 7=Concrete 8=Tiles 9= Iron sheet 10=Some other material	
		(B) WALLS 1=Pan brick 7=Pole 13=Steel	

		2=Concrete brick 3=Mud brick 4=Burnt brick 5=Concrete 6=Timber	8=Pole and mud 9=Mud 10=Grass/straw/thatch 11=Iron sheets 12=Stone	14=Hardboard 15=Plastic 16=Canvas 17=Cartons 18=Mixture	
		(C) FLOOR 1=Mud/earth only 2=Concrete only	3=Mud/earth and concrete 4=Wood	5=Concrete with wood	
10.5	What is the main source of drinking water for this household?	1=Directly from river/lake 2=Rainwater 3=Unprotected well 4=Protected well	5=Borehole 6=Spring 7=Own tap 8=Public tap	9=Other tap 10=Water kiosk 11=Water vendor	
10.6	Where is the source of water located?	1=Outside the compound (far away)	2=Inside the compound (nearby)	3=Inside the house	
10.7	How far away is this drinking source (One Way)?	Distance in kilometres Put 0 if main water source is in or by the house			
10.8	Does your compound have piped water that is available and working?	0=No	1=Yes		
10.9	Does your household have electricity?	0=No → Skip to 10.12	1=Yes		
10.10	Does your household have access to national grid electricity?	0=No	1=Yes		
10.11	Does your household have access to solar electricity?	0=No	1=Yes		
10.13	What is the main type of energy used for cooking?	1=Collected firewood 2=Purchased firewood 3=Own charcoal 4=Purchased charcoal	5=Dung 6=Kerosene/Paraffin 7=Gas 8=Electricity	9=Solar 10=Crop residue 11=Biogas	
10.14	What is the main type of toilet facility does the household have?	1=Own flush in house 2= Own flush outside house 3=Own pit latrine with slab 4= Communal pit lat. with slab	5= Neighbour pit lat. with slab 6= Own pit latrine without slab 7= Communal pit lat. w/o slab 8= Neighbour pit lat. w/o slab	9=Bucket/container 10- Aqua privy 11=None	

Section 12: SELF ASSESSED POVERTY, FOOD SECURITY AND SHOCKS TO HOUSEHOLD WELFARE

<i>INTRODUCTION: I am now going to ask about your household welfare.</i>							
No.	QUESTION	CATEGORY AND CODE	CODE	No.	QUESTION	CATEGORY AND CODE	CODE
12.1	Compared to 12 months ago , that is, during this day in 2015, do you consider your household to be better off, the same or worse off now?	1=BETTER OFF 2=THE SAME 3=WORSE OFF 4=NOT APPLICABLE		12.5	In the past four weeks , did you or any household member have to eat fewer meals in a day because there was not enough food?	[FIRST PROMPT FOR ‘YES’ OR ‘NO’. IF ‘YES’, ASK HOW OFTEN] 0=NO 1=RARELY (ONCE OR TWICE) 2=SOMETIMES (THREE TO TEN TIMES) 3=OFTEN (MORE THAN TEN TIMES)	
12.2	How many meals excluding snacks do you normally have in a day?	1=ONE 2=TWO 3=THREE 4=MORE THAN THREE		12.6	In the past four weeks , was there ever no food to eat of any kind in your household because of lack of resources to get food?	[FIRST PROMPT FOR ‘YES’ OR ‘NO’. IF ‘YES’, ASK HOW OFTEN] 0=NO 1=RARELY (ONCE OR TWICE) 2=SOMETIMES (THREE TO TEN TIMES) 3=OFTEN (MORE THAN TEN TIMES)	
12.3	How many times in the past one month did your household eat fish, poultry or animal products?	1=ZERO 2=ONCE 3=TWICE 4=THRICE 5=FOUR TIMES 6=FIVE TIMES 7=MORE THAN FIVE TIMES		12.7	In the past four weeks , did you or any household member go to sleep at night hungry because there was not enough food?	[FIRST PROMPT FOR ‘YES’ OR ‘NO’. IF ‘YES’, ASK HOW OFTEN] 0=NO 1=RARELY (ONCE OR TWICE) 2=SOMETIMES (THREE TO TEN TIMES) 3=OFTEN (MORE THAN TEN TIMES)	
12.4	How many times in the past one week did your household eat vegetables?	1=ZERO 2=ONCE 3=TWICE 4=THRICE 5=FOUR TIMES 6=FIVE TIMES 7=MORE THAN FIVE TIMES		12.8	In the past four weeks , did you or any household member go a whole day and night without eating anything because there was not enough food?	[FIRST PROMPT FOR ‘YES’ OR ‘NO’. IF ‘YES’, ASK HOW OFTEN] 0=NO 1=RARELY (ONCE OR TWICE) 2=SOMETIMES (THREE TO TEN TIMES) 3=OFTEN (MORE THAN TEN TIMES)	