

Can graduation programs be greener? Evidence from the BOMA program: analysis plan for endline

11/24/2025

Principal researchers: Jennifer Alix-García, Lasse Brune, Kim Cramer, Dean Karlan, Halefom Nigus

Implementing Partner: BOMA

Introduction

This document outlines the plan for analysis of a second follow-up survey of an experiment with BOMA's Green REAP program. The survey follows up with study participants recruited into the study during the baseline survey 14 months after the start of the program, 12 months after the transfer of an "assets" (KSh 50,000, about \$400 lump sum cash transfer, per three-member business group formed as part of the program).

Green REAP is a modified Graduation approach that aims to simultaneously move households out of extreme poverty and create positive environmental impacts through business choice and educational modules on climate change and environmental management. The study is a clustered randomized controlled trial with three arms: Standard REAP, Green REAP, and a Control. The study aims to establish whether Green REAP is able to maintain (or increase) the poverty and welfare impacts of Standard REAP while achieving additional environmental benefits.

Empirical analysis

The analysis will be based on OLS regressions of outcomes of interest on treatment indicators for Standard and Green REAP and controls for geographic stratification fixed effects, baseline values of outcomes where available or their closest proxies, and re-randomization variables or proxies. In addition, we will analyze heterogeneity of treatments effects using the ML techniques described in Chernozhukov et al (2020)¹ with a set of baseline variables that will include baseline values of primary outcomes or their proxies, household demographics, and others. Outcomes will be winsorized at the top and bottom 1% if the standard deviation of the unwinsorized outcome exceeds the winsorized version of the outcome by more than 50%.

Indices

For the construction of outcome group summary measures based on components with different scales, we will use the methodology detailed in by Kling, Liebman, and Katz (2007), unless the index is a specific index in the academic literature, in which case we will use the method employed in that literature to compute the index. Specifically, for those concepts without a preconceived

¹ Chernozhukov, Demirer, Duflo, Fernandez-Val (2020): "Generic machine learning inference on heterogenous treatment effects in randomized experiments," ArXiv: 1712.04802.

index formula, our methodology consists in first signing all variables consistently such that higher is telling a consistent story for the index. Then, we standardize the individual components of the index by subtracting the comparison group mean and dividing by its standard deviation. Then, we take the average of the now-standardized components into a single measure, and then again finally standardize the average (again to the comparison group mean and standard deviation). We will use the follow-up survey control group values for the standardization.

Primary outcomes of interest

We have two types of primary outcomes – environmental & economic ones. We list the outcomes and their components below.

Environmental outcomes

Summary list:

- Charcoal and fuelwood production index
- Fuelwood consumption
- Sustainable livestock practices index
- Drought and disaster management index
- NRM knowledge index
- Environmental management index

Details:

Charcoal and fuelwood production index:

- *Summary measure:* average of z-scores from the two components below:
 - Target household time spent on charcoal and fuelwood production past week: based on time use question in time use section
 - Revenue from charcoal and fuelwood making business past week [\$]: total cash and credit sales from the past month divided by four.

Fuelwood consumption:

- *Summary measure:* normalized value (subtract comparison group mean and divide by its standard deviation) of the amount of fuelwood used in the past week (from direct measure in the survey)

Sustainable livestock practices index:

- *Summary measure:* sum up livestock management activity component values plus the value of the rotational grazing response, and then subtract the comparison group mean and divide by its standard deviation.
 - Livestock management activities: code as 0 or 1 each of the components of livestock management module, with 1 indicating a positive management activity.
 - Rotational grazing is covered in section 6.D., with responses be coded as follows:

Daily	5
Bi weekly	2
3-4 times a week	4
Weekly	3
Monthly	1

Drought and disaster management strategies index:

- *Summary measure:* average of the two indices described below:
 - Drought management strategies are binary responses across drought management options. Sum up all responses, subtract comparison group mean and divide by its standard deviation.
 - Disaster management strategies are binary responses across options in disaster management module. Sum up all responses, subtract comparison group mean and divide by its standard deviation.

NRM knowledge index:

- *Summary measure:* normalized sum of the recoded responses to environmental knowledge module.
- Reorganize coding of responses in this module that higher numbers indicate greater knowledge of environmentally-related issues discussed in the NRM training. In the table below, Reverse scale indicates recoding the data such that responses of 1 are changed to 5, 2 to 4, etc. Keep scale means to keep the original coding 1-5, where 5 is strongly disagree. Once recoded, sum up all of the responses, subtract comparison group mean and divide by its standard deviation. Recode -888 and -999 as missing. As a robustness check, recode -999 as 0.

The climate is changing over time, with less predictable rains	Reverse scale
Repeated drought affects fuelwood and water in the future.	Reverse scale
Repeated drought can make the forest weaker	Reverse scale
I believe that my children will experience more droughts across than lifetimes than I have experienced	Reverse scale
I believe that I can teach my children strategies that will help them cope with droughts and floods	Reverse scale
Cutting down trees is helpful for livestock grazing.	Keep scale
Cutting down trees to make charcoal can make soils drier and less able to support livestock.	Reverse scale
Burning charcoal is one of the activities that leads to repeated drought	Reverse scale
Keeping many animals in a small place place can ruin that place for future grazing	Reverse scale
Kenyan law allows women to own communal land in the land of their birth and where they are married.	Reverse scale

The extent of environmental problems is exaggerated	Keep scale
Some of the activities that people do make droughts come more frequently	Reverse scale
God not human is the cause of rain and drought, and people need not to take any measure to mitigate environmental problems	Keep scale
If the frequency and intensity of drought is increasing, do you think it is... ?	Recode 1=3, 2=2, 3=1

Environmental management index:

- Summary measure: sum responses to questions regarding participation in environmental management groups, forest management activities in which the household participates with a group or individually, participation in discussions about forest management, and the presence of a community resource management group. Subtract comparison group mean and divide by its standard deviation.
- Detailed questions are from environmental behavior module (module 5):

Does your community have rules for accessing the forest and forest products?	0/1
Over the last 12 months, have you or members of your household, individually or as part of a community effort, planted any trees to earn a wage income?	0/1
Over the last 12 months, have you or members of your household, individually or as part of a community effort, planted any trees for reasons other than earning a wage income?	0/1
Number of seedlings planted that survived	continuous
Child participating in environmental group at school	0/1
Member of community conservation group	0/1
Number of management activities household participated in with conservation group	continuous
Number of management activities household participated in without conservation group	continuous
Number of people chatted with about forest management	continuous
Community has resource management plan	0/1

Economic outcomes and household well-being

Summary list:

- Consumption per capita (\$)
- Food security index*
- A subjective well-being index*
- Household income (\$)
- Value of productive assets (\$)
- Savings (\$)

* = outcomes that are the same as specified in the midline analysis plan; the remainder is new/different

Details:

Consumption per capita

- *Summary measure:* Value of 30-day consumption (=sum of outcomes below), divided by the household's derived adult-equivalents (\$)
- Adult equivalent scale:
 - 1st adult = 1; 2nd-n adults = 0.7; children 0-14= 0.5
 - The measure will be derived based on midline for the random subsample that was interviewed at midline; for the remainder of the sample it will be predicted by the number of household members and other demographic information available at endline with the prediction based on the portion of the sample where detailed midline information is available and done separately by experiment group and county.
- Consumption components:
 - 7-day recall food consumption value (\$) multiplied by 4.3
 - 7-day recall non-consumption expenditure value (\$) multiplied by 4.3
 - 30-day recall expenditure (\$)
 - 3-month recall expenditure (\$) divided by 3
 - 12-month recall expenditures (\$) divided by 12
 - 10% of total value of household durables (\$) that are not covered in the 12 month non-food expenditures
- Note: To reduce interview time, only a 30% random subsample, stratified by treatment condition and county, received the “long” consumption module with the full list of 94 items/categories. The remainder received a “short” module with 25 items/categories. For the analysis, the aggregate in the short survey sample will be imputed using the long survey observations to estimate a model of the aggregate as a function of the 25 items available in the short survey sample. Inference will account for imputation with simulations such as those used in Stata’s mi impute suite of commands (e.g. predictive mean matching with chained imputations).

Food security

- *Summary measure:* z-score index of FCS, HFIAS
- Individual outcomes:

- Food Consumption Score (FCS) following INDDEX Project (2018), based on number of days in past 7 days household has consumed different major food categories
- Household Food Insecurity Access Scale (HFIAS) following Coates et al. (2007), based on eighteen questions about incidence and frequency of food security problems in past four weeks

Subjective well-being index

- *Summary measure*: z-score index of Kessler 6 and ladder question average
- Kessler 6
- Life satisfaction and relative economic status
 - Average of four 1-10 ladder questions: current life satisfaction, life satisfaction in five years, current relative economic status, relative economic status in five years

Household income

- *Summary measure*: Sum of components
- Off-farm business profits (\$), based on a direct question about enterprise profit/loss, taking into account households' share of group businesses
- Net revenue net revenue from livestock rearing (\$) := for livestock not associated with an off-farm business, animal sales plus value of slaughtered animals plus revenue from livestock product minus purchases minus expenses
- Net harvest value (\$): Value of harvested from seasonal and permanent crops (quantity times price per unit at the time of harvest) minus costs of purchased inputs and hired labor (all normalized to the same period)
- Income from employment (\$)

Value of productive assets

- *Summary measure of stock*: Sum of value of sub-components (\$)
- Individual outcomes:
 - Value of livestock owned (\$) := sum over animal types of number of animals times average of median purchase and sales price within treatment groups
 - Value of common durable productive assets (mostly agriculture related) (\$)
 - Value of off-farm business assets (\$)
- Note: We will report on the treatment effects on land separately, due to measurement error in self reports on land size and land value.

Value of savings: Sum of value of current savings across savings locations.

Secondary outcomes

All outcomes that are not listed as primary outcomes are considered secondary outcomes, see attached survey instrument.

Data collection and timing of analysis

While data collection was partially completed (about 42%) at the time of submission of this analysis plan, the researchers have been blind differences between experimental groups, with the exception of analysis of survey attrition which is being conducted during data collection and includes comparisons of attrition rates by treatment status for the purpose of management of potential differential attrition.

FLEP ENDLINE QUESTIONNAIRE

Variable name	Question	Choices
caseid	Case ID	
comments	comments	
audio_audit	audio audit	
text_audit	text_audit	
speed_violations_count	speed_violations_count	
speed_violations_list	speed_violations_list	
speed_violations_audit	speed_violations_audit	
pilot_village	Which County are you currently working in today?	10 Marsabit 23 Turkana 25 Samburu
sfo	Select the name of your SFO.	
enumname	Enumerator's Name.	
enumid	Please enter Enumerator ID	
respo_id_confirm	Re-enter respondent's ID	
response	ENUMERATOR: DO NOT READ THIS ALOUD Were you able to locate the respondent?	1 Found the respondent, correct respondent 2 Found someone, but not the respondent 3 Everyone absent for an extended period of time 4 Dwelling vacant or address not a dwelling 5 Dwelling destroyed 6 Dwelling not found 7 Deceased 10 Respondent relocated
detailsconfirmation	Can you confirm the below details of the household being tracked: Name: {cal_respondentname} SubCounty: {subcountyid} Division: {divisionid} Sub-location: {sublocationid} Manyatta: {loc_f_manyatta}	0 No 1 Yes
id_no	Confirm if the ID number of the respondents is {idnumber}	0 No 1 Yes 2 Respondent did not have Physical
id_check	Why is the ID number not correct?	1 Not the right respondent 2 Some digits are not correct

id_replace	Please update the ID number if you are sure that she is the right respondent	
find_hh	Did you find the household?	<ul style="list-style-type: none"> -222 Other, specify 1 Yes, I found the household 2 Found household but respondent is not available at the time of the visit but will be available some other time 3 Found the household but respondent is away for more than one week 4 Found household but everyone is absent for an extended period of time 5 Household is not known in the village 6 Household moved elsewhere 7 Household is vacant or address not a dwelling 8 The respondent is not capable of participating in the survey (drunk, too ill, etc...) 9 Yes, but the respondent is deceased 10 Ineligible, respondent is a minor
hh_found	Household found	
availability_check	Hello! I'm visiting you today as we are conducting a study about women's business development and management of natural resources. I would like to give you more information and seek your consent before we start, do you have a moment?	<ul style="list-style-type: none"> 0 No 1 Yes
resp_available	Respondent available	
consent	If I have answered all your questions, do you agree to participate in this study?	<ul style="list-style-type: none"> 0 No 1 Yes
consent_refusal	What reasons did the respondent give for not wanting to participate?	<ul style="list-style-type: none"> -222 Other specify 1 Not willing to give household information 2 Has no time to complete the survey 3 Respondent gave no specific reasons for refusal even after probing 4 Wants more compensation
spec_consent_refusal	Specify reason for refusal	
consented	Consented	
s1_language	{cal_enumname}: Which language does the respondent prefer?	<ul style="list-style-type: none"> 1 English 2 Swahili 3 Samburu 4 Turkana 5 Borana 6 Gabra

		7 Rendile
s1_lang_change	{cal_enumname} Have you changed the survey language to {cal_language}?	0 No 1 Yes
section2	SECTION 2: DEMOGRAPHIC INFORMATION	
s2a_hhno	2.01 . IN ADDITION TO YOU , how many other people live in this household? HOUSEHOLD: A group of people who live in the same homestead (which may consist of more than a single dwelling) that share food and other items bought from a common household budget. This includes people who are away temporarily (e.g. herding or at boarding school) for less than 9 months.	
section3_group	SECTION 3: POVERTY MEASUREMENT AND HOUSEHOLD CHARACTERISTICS	
section3a	Poverty Measurement	
s3_spouse_educ	3.01 What is the highest level of education that the female household head/spouse has reached?	1 Pre-primary, none, or other 2 Primary 3 Secondary or post-primary, vocational 4 College level or higher 5 There is no female household head/spouse
s3_bread	3.02 Over the past 7 days, did the household either purchase/consume/acquire any bread?	0 No 1 Yes
s3_fish	3.03 Over the past 7 days, did the household either purchase/consume/acquire any meat or fish?	0 No 1 Yes
s3_rip_banana	3.04 Over the past 7 days, did the household either purchase/consume/acquire any ripe bananas?	0 No 1 Yes
s3_towel	3.05 Does your household own any towels?	0 No 1 Yes
s3_flasks	3.06 Does your household own any thermos flasks?	0 No 1 Yes
s3_wall	3.07 What is the predominant wall material of the main dwelling unit?	1 Finished walls (cement, stone with lime/cement, bricks, cement blocks, covered adobe, or wood planks/shingles) 2 Uncovered adobe, plywood, cardboard, reused wood, or corrugated iron sheets 3 Natural walls (cane/palm/trunks, grass/reeds, or mud/cow dung), no walls, bamboo with mud,

		stone with mud, or other
s3_floor	3.08 What is the predominant floor material of the MAIN dwelling unit?	1 Natural floor (earth/sand or dung) or palm/bamboo 2 Other (including wood planks/shingles, parquet or polished wood, vinyl or asphalt strips, ceramic tiles, cement, or carpet)
poverty_graduation	Poverty Graduation	
s3_meal_30days	3.09 Did any of your Children go to bed without an evening meal in the past 30 days?(this could be due to lack of food or not enough money to buy food)	1 Yes 2 No 3 Absent-children leave elsewhere 4 N/A-No children
s3_meal_7days	3.10 Did you and your children eat at least 2 meals per day in the past 7 days?	1 Yes 2 No 3 Absent-children leave elsewhere 4 N/A-No children
section4_grup	SECTION 4: COOKING FUEL, STOVES AND TIME USE	
section4a	Subsection 4A: Cooking Fuels	
s4_fuel	4.01 What type of fuel or energy source does this household use ? <i>HINT: Do not Read out loud the options and select all that apply</i>	-222 Other, specify 1 Kerosene 2 Coal/lignite 3 Charcoal 4 Wood/Firewood 5 Solar 6 Animal Waste/Dung 7 Crop Residue/Plant Biomass 8 Saw Dust 9 Biomass Briquette 10 Processed biomass (pellets)/ woodchips 11 Ethanol 12 Biogas 13 LPG/cooking gas 14 Electricity 15 Garbage/plastic 16 Briquettes
spec_s4_fuel	Please specify	
s4_fuelquantity	a. Quantity used	
s4_fuelunit	b. unit collected	1 Kg

		2 Bundle 3 Bag 4 Cylinder 5 Pieces 6 Small bundle (<2kg) 7 Standard bundle (2kg) 8 Large bundle (>2kg) 9 50kg Sack/Bag 10 100kg Sack/Bag 11 Bucket/Debe
s4_stove_group	Subsection 4B: Stoves	
s4_stovetype	4.03 What types of cookstoves/appliances does your household use? <i>HINT: select all that apply</i>	-222 Others, specify_____ 1 Kenya Ceramic Jiko (KCJ) 2 Improved charcoal stove 3 Metallic charcoal stove 4 Three stone open fire 5 Kuni mbili stove (juakali) 6 Potable firewood stove (manufactured) 7 Fixed biomass stove 8 Gasifier stoves 9 LPG stove (multiple burner) 10 Meko 11 Mixed LPG-Electricity stove 12 Kerosene wick stove 13 Pressurized kerosene stove 14 Electric coil stove 15 Electric induction stove 16 Biogas stove 17 Retained heat cookers 18 Solar cooker 19 Liquid biofuel stove 20 Gel biofuel stove 21 Nyama Choma Grill 22 Microwave
s4_stovetype_osp	4.03b Specify other appliance	
s4_mainstove	4.04 What is your main stove for cooking purposes?	-222 Others, specify_____ 1 Kenya Ceramic Jiko (KCJ) 2 Improved charcoal stove 3 Metallic charcoal stove 4 Three stone open fire

		5 Kuni mbili stove (juakali) 6 Potable firewood stove (manufactured) 7 Fixed biomass stove 8 Gasifier stoves 9 LPG stove (multiple burner) 10 Meko 11 Mixed LPG-Electricity stove 12 Kerosene wick stove 13 Pressurized kerosene stove 14 Electric coil stove 15 Electric induction stove 16 Biogas stove 17 Retained heat cookers 18 Solar cooker 19 Liquid biofuel stove 20 Gel biofuel stove 21 Nyama Choma Grill 22 Microwave
s4c_stoves	Stove details	
stove_group	{s4_stovename}	
s4_stoveuse	4.05 For what purpose do you use {s4_stovename}?	-222 Other, specify 1 Boiling water only 2 Cooking food only 3 All cooking
spec_s4_stoveuse	Specify other use of stove	
s4_stovefre	4.06 How often is {s4_stovename} used for cooking?	1 Daily 2 2-3 times per week 3 Once per week 4 Once every 2 weeks 5 Once a month 6 Less than once a month
s4_spaceheat	4.07 Do you ever use {s4_stovename} for space heating?	0 No 1 Yes
s4_ventilation	4.08 How is this {s4_stovename} ventilated?	-999 Don't know / not sure 1 No Ventilataion 2 Windows 3 Openings in wall (hole) or raised roof 4 Chimney

		5 Fan 6 Door to outside 7 No need for ventilation
sec4c_group	Subsection 4C: Time use	
s4_livestock	4.09 During the seven days prior to today, did you spend any time doing livestock rearing (including poultry)?	0 No 1 Yes
s4_livestock_hrs	4.10 During the seven days prior to today, how many hours did you spend doing livestock rearing (including poultry)? <i>HINT: round off to an hour</i>	
s4_farming	4.11 During the seven days prior to today did you spend any time doing any own farm agriculture (not for wages)?	0 No 1 Yes
s4_farming_hrs	4.12 During the seven days prior to today, how many hours did you spend doing own farm agriculture (not for wages)?	
s4_trading	4.13 During the seven days prior to today, did you spend any time doing the processing or trading of agricultural goods?	0 No 1 Yes
s4_trading_hrs	4.14 During the seven days prior to today, how many hours did you spend doing the processing or trading of agricultural goods?	
s4_off_farming	4.15 During the seven days prior to today did you spend any time doing any agricultural wage labor? This does not include any work done on your own farm.	0 No 1 Yes
s4_off_farm_hrs	4.16 During the seven days prior to today, how many hours did you spend doing agricultural (off-farm) wage labor? This includes time spent off your farm.	
s4_non_farming	4.17 During the seven days prior to today did you spend any time doing any non-agricultural wage labor?	0 No 1 Yes
s4_non_farm_hrs	4.18 During the seven days prior to today, how many hours did you spend doing non-agricultural wage labor?	
s4_microentrprise	4.19 During the seven days prior to today did you spend any time doing any non-agricultural microenterprise or other self-employment? Microenterprise includes cooperatives and joint ventures that you co-own.	0 No 1 Yes
s4_micro_hrs	4.20 During the seven days prior to today, how many hours did you spend doing non-Agricultural microenterprise or other self-employment?	
s4_formalwk	4.21 During the seven days prior to today, did you spend any time working for a formal job for pay?	0 No 1 Yes
s4_formalwk_hrs	4.22 During the seven days prior to today, how many hours did you spend working a pay?	

s4_fuelwood	4.23 During the past seven days prior to today, did you spend any time collecting fuelwood for either cooking or sale?	0 No 1 Yes
s4_fuelwood_hrs	4.24 During the past seven days prior to today, how many hours did you spend collecting fuelwood for either cooking or sale?	
s4_charcoalpro	4.25 During the past seven days prior to today, did you spend any time producing charcoal (cutting trees, burning trees, etc.)?	0 No 1 Yes
s4_charcoalpro_hrs	4.26 During the past seven days prior to today, how many hours did you spend producing charcoal (cutting trees, burning trees, etc.)?	
s4_cooking	4.27 During the past seven days prior to today, did you spend any time cooking food?	0 No 1 Yes
s4_cooking_hrs	4.28 During the past seven days prior to today, how many hours did you spend cooking food?	
section5	SECTION 5: ENVIRONMENTAL KNOWLEDGE ATTITUDES AND BEHAVIORS	
s5c_forestprd_group	Subsection 5a: Forest Products	
s5_forestaccess	5.01 Are you able to access forested areas?	0 No 1 Yes
s5_forestaccess_grup	Forest Accessed	
s5_forest_activity	5.02 In general, which of the following activities do you do in the forest? <i>HINT: , read out the options aloud</i>	-222 Other -111 None 1 Harvest fuelwood, charcoal, 2 Graze animals 3 Farm 4 Collect water / get water for livestock 5 Conduct religious ceremonies 6 Herbs, honey, or other forest products 7 Sand harvesting 8 Fencing posts
s5_spec_forest_activity	5.02 b Specify	
s5_activity	Forest activities	
s5_forest_activity_rank1	5.03 a Which activity is the first most important to you?	-222 Other -111 None 1 Harvest fuelwood, charcoal, 2 Graze animals 3 Farm 4 Collect water / get water for livestock 5 Conduct religious ceremonies

		6 Herbs, honey, or other forest products 7 Sand harvesting 8 Fencing posts
s5_forest_activity_rank2	5.03 b Which activity is the second most important to you?	-222 Other -111 None 1 Harvest fuelwood, charcoal, 2 Graze animals 3 Farm 4 Collect water / get water for livestock 5 Conduct religious ceremonies 6 Herbs, honey, or other forest products 7 Sand harvesting 8 Fencing posts
s5_forest_activity_rank3	5.03 c Which activity is the third most important to you?	-222 Other -111 None 1 Harvest fuelwood, charcoal, 2 Graze animals 3 Farm 4 Collect water / get water for livestock 5 Conduct religious ceremonies 6 Herbs, honey, or other forest products 7 Sand harvesting 8 Fencing posts
s5_productharvest	5.04 Which of these products have you or your family harvested from the forest in the last 12 months? <i>HINT: , read out the options aloud</i>	-222 Other -111 None 1 Fruits 2 Vegetables 3 Mushrooms 4 Nuts 5 Honey 6 Seeds 7 Gums and resins 8 Bushmeat 9 Fuelwood 10 Medicinal herbs 11 Poles for construction 12 Poles for fencing 13 Thatch for roof 14 Whole trees for creating timber/wood

		<p>products</p> <p>15 Whole trees for creating charcoal</p> <p>16 Tree stubs for charcoal</p> <p>17 Fodder/grass for livestock</p> <p>18 Palm Leaves</p>
spec_s5_productharvest	Please specify other products	
s5_productsgroup	Forest products harvest	
s5_harvestgrup	Products Harvested	
s5_harvests	{s5_prd_name}	
s5_productloc	5.05 Where in the forest is the {s5_prd_name} accessed?	<p>-222 Other (Specify)</p> <p>1 Customary land to which my household has exclusive rights</p> <p>2 Customary land which my household shares with other households</p> <p>3 Gazetted land</p> <p>4 Community conservancies</p>
spec_s5_productloc	5.05b Specify	
s5_productsell	5.06 In the past 12 months, have you sold any of {s5_prd_name} ?	<p>-999 Dont know</p> <p>-888 Refused to answer</p> <p>0 No</p> <p>1 Yes</p>
s5_Productsales	Forest products Sales	
s5_forestpr_price	a. Price	
s5_forestpr_unit	b. Unit	<p>-888 Not applicable</p> <p>-222 Other specify</p> <p>1 KG</p> <p>2 Grams</p> <p>3 Litres</p> <p>4 Pieces</p> <p>5 Bundles</p> <p>6 50kg Sack</p> <p>7 90 Kg Sack/Bag</p> <p>8 Bucket/Debe</p>
spec_s5_forestpr_unit	b. Unit	
s5_forestpr_earn	5.08 Approximately how much was the total revenue that you earned from selling {s5_prd_name} in the last 12 months? <i>HINT: Ksh</i>	

s5_productsgroup	Forest products harvest	
s5_cuttrees	5.09 During the past 12 months, did you cut any trees to clear land for cultivation?	0 No 1 Yes
s5_foresteasyaccess	5.10 How easily can you or members of your household access this forest without concern for penalties?	-999 Dont know -888 Refused to Answer 1 Very easily 2 Somewhat easily 3 Neither difficult nor easy 4 Somewhat difficult 5 Very difficult
s5_forest_rules	5.11 Does your community have rules for accessing the forest and forest products?	0 No 1 Yes
s5_made_rules	5.12 Who made these rules?	-999 Don't know -222 Other 1 The chief/headman 2 A committee 3 The leader of a committee 4 User rights group 5 Kenya Wildlife Service KWS 6 NEMA(National Environmental Authority) 7 Kenya Forest Service 8 Rangers 9 Community Forest Association (CFA)
s5_spec_made_rules	5.12b Specify	
s5_rules_fair	5.13 Do you believe that these rules are fair?	0 No 1 Yes
s5_violators	5.14 In the past year, how many people do you know who have been fined for violating the rules governing the forest? <i>HINT: record -999 if respondent does not know</i>	
s5b_otherbehaviour_grup	Subsection 5B: Other individual Environmental behavior	
s5_planttrees	5.15 Over the last 12 months, have you or members of your household, individually or as part of a community effort, planted any trees to earn a wage income?	-999 Dont know -888 Refused to answer 0 No 1 Yes
s5_trees_nowage	5.16 Over the last 12 months, have you or members of your household, individually or as part of a community effort, planted any trees for reasons other	-999 Dont know -888 Refused to answer

	than earning a wage income?	0 No 1 Yes
s5_treesplanted	Planted trees	
s5_plantlocation	5.17 Where did you plant these trees?	-222 Other specify 1 In the forest 2 In the school yard 3 Around my house 4 Community or private conservancy 5 Rangelands 6 Church/Mosque
spec_s5_plantlocation	5.17b Specify?	
s5_ptrees_grup	Trees details	
s5_treequantity_grup	Tree quantity	
s5_treequ_seed	Number of seedlings	
s5_treesurvive	5.19 Out of the {s5_treequ_seed} of seedlings you planted {s5_kindtrees_name}, how many of these survived? <i>HINT: Enter -999 if don't know</i>	
s5c_commbehavior_grup	Subsection 5C: Other Community Environmental behavior	
s5_womencharcol	5.20 Approximately how many women in your village make charcoal to sell ? <i>HINT: Enter -999 if don't know</i>	
s5_environmentgrup	Subsection 5D: Environmental Groups	
s5_envi_training	5.21 Have you participated in any training about the environment or forest management in the past 12 months?	0 No 1 Yes
s5_institution	5.22 From which institution did you receive this training from?	-222 Others specify 1 NEMA(National Environmental Authority) 2 County Government 3 Water resources authority 4 KFS(Kenya Forest Service) 5 Kenya water tower agency 6 BOMA/LIFT-NK 7 Financial institutions 8 KEFRI(Kenya Forest Research institute) 9 Community Forest Association/ Management (CFA) 10 National Government 11 World Food Programme (WFP) 12 NAWIRI 13 LOKADO

		14 Northern Rangeland Trust 15 World Vision 16 Caritas- Catholic development organization
spec_s5_institution	5.22b Other specify	
s5_childpart	5.23 Are your children participating in an environmental group at school?	-111 No children/Not applicable 0 No 1 Yes
s5_childatt	5.24 Have you attended meetings related to your child's work at school?	0 No 1 Yes
s5_commgrups_filtre	5.25 During the past 12 months, have you or a member of your household been a member of any COMMUNITY CONSERVATION GROUPS?	-999 Dont know -888 Refused to answer 0 No 1 Yes
s5_commgrups	5.26 Please select the groups which you or your household are members of	-222 Other, specify_____ 1 Community Forest Association/ Management (CFA) 2 Water Resources User Association (WRUAs) 3 Natural Resource managemnet (NRM) committees 4 Forest management committee 5 Grazing committee 21 Ward Climate Change Planning Committee (WCCPC) 22 Charcoal Users Association (CUA) 23 Environmental Management Committee (EMC) 24 Rangeland Management Committee (RMC)
spec_s5_commgrups	Please specify other groups	
s5_cgroupdetails_grup	community groups	
grupactivity_group	{s5_grupactivity_name}	
s5_grupactivity	5.27 Please indicate the activities in which you have engaged with {s5_grupactivity_name}	-222 Other specify_____ -111 None 1 Patrolling the forest 2 Attending meetings of the group 3 Reporting illegal activities in forest 4 Planting trees 5 Helping with tree nursery 6 Teaching others about the forest or activities of

		THE GROUP
spec_s5_grupactivity	5.27b Please specify other activity	
s5_ownforestactv	5.28 Please indicate the forest management activities you have engaged in on your own without / any {s5_grupactivity_name}	<p>-222 Other specify _____</p> <p>1 Patrolling the forest</p> <p>3 Reporting illegal activities in forest</p> <p>4 Planting trees</p> <p>5 Helping with tree nursery</p> <p>6 Teaching others about the forest or activities of THE GROUP</p>
spec_s5_ownforestactv	5.28b Please specify other activity	
s5_discusions_grup	Discussion topics	
s5_iillegalactv	a. Illegal activities in the forest	
s5_plantingtrees	b. Planting trees in the forest	
s5_nrmactv	c. The activities of the CFA/WRUA/ or NRM	
s5_forestresources	d. Use of forest resources (trees, grazing, mining)	
s5_grazing_	e. Better management of animals grazing in forest	
s5_ptcpnconcrv	f. Participation in conservation or restoration	
s5_resiliencyacts	g. Resiliency activities at community or household level	
s5_other	h. Other	
s5_nrm_plan	<p>5.30 Does your community have a natural resource use and management plan/guideline?</p> <p><i>HINT: A resource management plan is a plan set in place by the community to protect and maintain existing resources eg, land, water, especially during drought</i></p>	<p>-999 Dont know</p> <p>-888 Refused to answer</p> <p>0 No</p> <p>1 Yes</p>
s5_nrm_resource	<p>5.31 What are the content of the resource use and management plan?</p> <p><i>HINT: check all that apply</i></p>	<p>-222 other</p> <p>1 Resource maps</p> <p>2 Grazing management plan</p> <p>3 Water resource sub-catchment plan</p> <p>4 Institutions</p> <p>5 Forests</p> <p>6 Wildlife</p> <p>7 Conservation and restoration plan</p>
spec_s5_nrm_resource	Other, specify	
section6	SECTION 6: LIVESTOCK	
sec_6a	Livestock ownership, sales and purchases	
s6_hh_owned_lvstck	6.01 Have you or anyone in your household owned one of these types of animals in the last 6 months? Include animals that someone outside the household takes care of.	<p>-888 (Prefer not to answer)</p> <p>-222 Other, specify</p> <p>-111 None</p>

		1 Chickens 2 Cows/heifers/calves 3 Goats 4 Sheep 5 Camel 6 Donkey/mule 7 Ducks 8 Rabbits
spec_s6_hh_owned_lvstck	Specify other livestock	
s6_livestock	Livestock	
s6_lvd_grp	{s6_livestock_name}	
s6_lvstck_total	6.02 How many {s6_livestock_name} does your household own today	
s6_lvstck_business	6.03 Do you use all {s6_livestock_name} for business? <i>HINT: Here we want to know if the respondent uses all her animals for business, or half for business, and the rest for personal use.</i>	0 No - all for personal use 1 Yes - all used for business 2 Both- some for business and some for personal use
s6_livestock_numb	Livestock count	
s6_owned_slctlvstck_personal	6.04 How many {s6_livestock_name} does your household own today for personal use?	
s6_owned_slctlvstck_business	6.05 How many {s6_livestock_name} does your household own today for business?	
s6_women_slctlvstck	6.06 In the last 6 months until yesterday, did you SELL any {s6_livestock_name} ?	0 No 1 Yes
s6_lvstck_sold	6.07 How many {s6_livestock_name} did you sell?	
s6_revenue	6.08 How much did your household earn in total from selling {s6_livestock_name} ?	
s6_women_slctlvstck_purchase	6.09 In the last 6 months until yesterday, did you BUY any {s6_livestock_name} ?	0 No 1 Yes
s6_lvstck_bought	6.10 How many {s6_livestock_name} did your household buy?	
s6_expenditure	6.10b How much did your household spend in total from buying {s6_livestock_name}?	
s6_slaughtered	6.11 In the last 6 months until yesterday, did you SLAUGHTER any {s6_livestock_name}?	0 No 1 Yes
s6_lvst_slaughtrd	6.11b How many {s6_livestock_name} did you slaughter?	
s6_lost_animals	6.12 Which types of animals did the household lose in the last 6 months ?	-222 Other -111 None

		1 Camel 2 Goats 3 Cattle 4 Sheep 5 Chickens 6 Donkey/mule
s6_lost_animals_oth	Other specify	
s6_livestock2	Livestock	
s6_lvd_grp2	{s6_livestock_name2}	
s6_lost_animals_nbr	6.13 How many TOTAL {s6_livestock_name2} did the household LOSE (e.g. death due to starvation, diseases) in the last 6 months? ?	
s6_lose_reason	6.14 . What was the reason for the LOSSES in {s6_livestock_name2} for this event?	-222 Other (specify) _____ 1 Starvation / Drought 2 Disease 3 Predation 4 Stolen/Rustling/Conflict 5 Accident/Poisoned 6 Just lost 7 Rain/Floods 8 Premature birth 21 Slaughtered
spec_s6_lose_reason	Specify other reason.	
sec_6b	Livestock inputs and practices	
s6_livestock_inputs	6.15 In the last 30 days did you spend anything on? <i>HINT: , read out the options aloud one by one</i>	-222 Other livestock input -111 None of the above 1 Animal feed 2 Transportation for animals/selling products 3 Hired labor for livestock 4 vaccines, anti-parasite, or other veterinarian costs 21 Salt or Magadi salt
spec_s6_livestock_inputs	6.15a Specify other.	
s6_livestock_inputs_rpt	Livestock inputs cost	
spec_s6_livestock_amt	6.16 How much did you spend on {livestockinput_name_s6}?	
s6_lvstck_activities	6.17 In the past 12 months, have you done any of these activities to support your livestock? <i>HINT: , read out the options aloud one by one</i>	-111 None of the above 1 Make hay to feed animals during drought 2 Preservation of maize stalks 3 Splitting herd

		4 Giving extra feed to herd during drought 5 Vaccination of herd 6 Treatment of parasites 7 Moving animals closer to kraal/manyatta during drought 8 Set aside grazing areas for drought 9 Using farm remains to feed animals 10 Burning grass 11 Store water in tanks 12 Plant trees in rangeland 13 Make sure grasses are not destroyed 14 Protect boreholes or shallow wells
sec_6c	Livestock Production	
s6_produced_animalpdcts	Now, I would like to talk about the products from livestock of your household 6.18 In the past 30 days has your household produced any of the following?	0 No 1 Yes
s6_milk	Milk	0 No 1 Yes
s6_eggs	Eggs	0 No 1 Yes
s6_meat	Meat	0 No 1 Yes
s6_hides	Hides or skin	0 No 1 Yes
s6_other_animalprdcts	Other animal products,specify.	0 No 1 Yes
spec_s6_animalprdcts	Other specify.	
milk	Milk	
s6_milk_revenue	6.19 How much was the total earned revenue for milk in the last 30 days? <i>HINT: Put 0 if the respondent did not sell</i>	
s6_milk_expenses	6.20 What, if any, were the total expenses incurred by the household for milk in the last 30 days? <i>HINT: Put 0 if no expenses</i>	
eggs	Eggs	
s6_eggs_revenue	6.19. How much was the total earned revenue for eggs in the last 30 days?	

	<i>HINT: Put 0 if the respondent did not sell</i>	
s6_eggs_expenses	6.20. What, if any, were the total expenses incurred by the household for eggs in the last 30 days? <i>HINT: Put 0 if no expenses</i>	
meat	Meat	
s6_meat_revenue	6.19. How much was the total earned revenue for meat < b > in the last 30 days? <i>HINT: Put 0 if the respondent did not sell</i>	
s6_meat_expenses	6.20. What, if any, were the total expenses incurred by the household for meat < b > in the last 30 days? <i>HINT: Put 0 if no expenses</i>	
hides	Hides or skins	
s6_hide_revenue	6.19. How much was the total earned revenue for hides or skin < b > in the last 30 days? <i>HINT: Put 0 if the respondent did not sell</i>	
s6_hide_expenses	6.20. What, if any, were the total expenses incurred by the household for hides or skin < b > in the last 30 days? <i>HINT: Put 0 if no expenses</i>	
other_products	Other products	
s6_other_prd_revenue	6.19. How much was the total earned revenue for other products < b > in the last 30 days? <i>HINT: Put 0 if the respondent did not sell</i>	
s6_other_prd_expenses	6.20. What, if any, were the total expenses incurred by the household for other products < b > in the last 30 days? <i>HINT: Put 0 if no expenses</i>	
sec_6d	Livestock structure	
s6_lvstck_structures	6.21 Do you or your household members have one of these livestock structures?	-888 (Prefer not to answer) -777 Other structures -111 None 1 Bird Pen/Coop 2 Goat house/goat pen 3 Pigsty/pigpen 4 Cow house/Kraals 21 Sheep pen
s6_live_stru	Livestock Input	
s6_livestoc_stru_grp	{s6_livestruc_name}	
s6_lvstck_structure_nbr	6.22 How many {s6_livestruc_name} does your household have?	
s6_lvstck_structure_rented	6.23 Have you rented any of your {s6_livestruc_name} in the past 6 months?	0 No 1 Yes
grazing	grazing of animals	

s6_freq_grazing	6.24 Where do you most frequently graze the livestock that are kept near your house?	-111 None 1 Parcel that my household owns 2 Customary land to which my household has exclusive rights 3 Customary land which my household shares with other households 4 Gazetted land
s6_freq_grazing_trees	6.25 Does the area where you graze your livestock have trees?	0 No 1 Yes
s6_freq_grazing_change	6.26 How frequently do you change the area where you graze your livestock?	-222 Other: specify 1 Daily 2 Bi weekly 3 3-4 times a week 4 Weekly 5 Monthly
spec_s6_freq_grazing_change	6.28b. Specify other duration	
s6_lvstckwater	6.29. Where do you get water for your livestock?	-222 Other specify 1 Within the village 2 At a water hole in the forest 3 Outside the village
spec_s6_lvstckwater	6.29b. Specify other water source	
s6_invest_filter	Now, we are going to talk about your livestock investment activities. 6.30 In the last 6 months, meaning from {month_6m} to yesterday, did you or anyone in your household put any money into your livestock activities such as tending to the animals, selling or buying?	0 No 1 Yes
s6_invest_source	6.31 In the last six months, meaning from {month_6m} to yesterday, did you or anyone from your household, put any money into your livestock activities from: <i>HINT: read out the options</i>	-888 Refuse to answer -222 Other, specify 1 Personal funds and savings 2 Other members of the household 3 Family or friends outside of the household 4 Cash transfer from government, NGOs or organisations 5 Other NGO 6 Loans from the savings groups
s6_invest_source_other	Specify other source	
livestoc_investmt	Livestock Investment	
s6_livestoc_invest	{s6_invest_name}	

s6_invest_amt	6.32 In the last six months, meaning from {month_6m} until yesterday, how much money did your household put into your livestock activities from {s6_invest_name} ?	
s6_invest_correct	6.33. Does {s6_invest_tot} sound correct for the total amount spent?	0 No 1 Yes
s6_invest_more	6.34. Do you think it should be more or less?	1 More 2 Less
s6_invest_inc_dec	6.35. From which source should we increase or decrease the amount?	-888 Refuse to answer -222 Other, specify 1 Personal funds and savings 2 Other members of the household 3 Family or friends outside of the household 4 Cash transfer from government, NGOs or organisations 5 Other NGO 6 Loans from the savings groups
s6_invest_inc_dec_other	6.35b. Other specify	
s6_invest_cont	6.36. In the next 12 months, do you think you will: <i>HINT: read options</i>	-999 Don't know 1 Invest more money into developing your activity/business 2 Not invest more money but continue your level of activity 3 Decrease your investment or stop your business/activity
s6_respo	{cal_enumname}: Who was the main respondent for this section?	1 Respondent 2 Spouse 3 Son/ daughter 4 Household relative e.g., uncle/aunt, niece, nephew, parent grandparent etc 6 Father 7 Mother
section7	AGRICULTURE:CROPS	
s6_own_land	7.01 Do you or anyone in your household own land?	0 No 1 Yes
land_owned	Land owned	
s6_own_land_size	7.02 How much land do you/household own?	

s6_land_quant	7.02b Units.	1 Square meters(m2) 2 Acres 3 Hectares
s7_land_purchase	7.03 Did your household buy any land since the beginning of 2023?	0 No 1 Yes
s7_land_cost	7.04 What was the price of the land you purchased?	
s7_puchaseland	7.05. Are you planning to purchase any land in the next 12 months?	0 No 1 Yes
s7_season_group	 in the last 12 months 	
s7_lr_plots_rentedout	7.06. Did you have any plots that you own but you rent out in the last 12 months?	0 No 1 Yes
s7_lr_plots_shareharvest	7.07. Did you have any plots that you own but someone used and gave you a share of their harvest in exchange in the last 12 months?	0 No 1 Yes
s7_lr_plots_leftfallow	7.08. Did you have any plot that you left fallow in the last 12 months? <i>HINT: Fallow means ploughed and left for a period of time to restore land fertility</i>	0 No 1 Yes
s7_lr_plots_hhclt	7.09. Did your household cultivate any plots in the last 12 months?	0 No 1 Yes
s7_lr_plots_hhclt_nbr	7.10. How many plots did your household cultivate in the last 12 months?	
s7_lr_plots_hhclt_own	7.11. Did you own any of these plots in the last 12 months ?	0 No 1 Yes
s7_lr_plots_hhclt_rent	7.12. Did you rent any of those plots in the last 12 months ?	0 No 1 Yes
s7_lr_plots_hhclt_grprent	7.13. Did you rent any of those plots with a group in the last 12 months ?	0 No 1 Yes
s7_lr_plots_hhclt_crpshr	7.14. Did you share any of your harvest with other farmers on any of those plot during in the last 12 months ?	0 No 1 Yes
s7_lr_plots_hhclt_shrcrp	7.15. Did you sharecrop any of those plot in the last 12 months ? Sharecrop means a landlord gave you his/her land for you to use in exchange for part of the harvest.	0 No 1 Yes
season_input	season	

s7_input_group	 {s7_season_all_input} 	
s7_lrininput_used	7.16. Did you use {s7_season_all_input} in the last 12 months?	0 No 1 Yes
s7_lrininput_purchase	7.17. Did you purchase {s7_season_all_input} in the last 12 months?	0 No 1 Yes
s7_lrininput_price	7.17b. How much did you spend while purchasing {s7_season_all_input} in the last 12 months?	
s7_lr_hire_labor	7.18. Did you hire labor in the last 12 months in the plots you cultivated?	0 No 1 Yes
s7_labor_amt	7.18b. How much did you pay the laborers you hired in the last 12 months in the plots you cultivated?	
s7_lr_irrigation	7.19. Did you use irrigation in the last 12 months in the plots you cultivated?	0 No 1 Yes
s7_lr_irrigation_typ	7.19b. What was the type of irrigation that you have used in the last 12 months?	-222 Other, specify 1 Flooding 2 Sprinkler 3 Drip irrigation 4 Bucket / watering can 5 Canal/trenches 6 Water hose
spec_s7_lr_irrigation_typ	7.19b. Specify other irrigation	
s7_lr_equipments	7.20. Did you use any of the following equipments in the last 12 months? <i>HINT: Read out the options</i>	-222 Other specify -111 None 1 Mechanical Plough (including oxen-pulled) 2 Knapsack chemical sprayer 3 Mechanical water pump 4 Motorized water pump 5 Motorized grain mill 6 Solar powered water pump
spec_s7_lr_equipments	7.20.Specify other equipment	
crop_produce	Crops grown	
s7_lr_crops	7.21. Which crops did the household grow in the last 12 months	-222 Other crop, specify 1 Maize 2 Sorghum 3 Millet

		4 Beans 5 Cowpeas 6 Other pulses ,(green gram, pigeon pea, others) 7 Ground nuts 9 Tomato 10 Cabbage 11 Onion 12 Sukuma wiki 13 Spinach 14 Terere/mchicha(Amaranth) 15 Sagaa (Spider plant) 16 Mrenda (Jute mallow) 17 Managu (Black (African nightshade) 18 Carrot 19 Water melons 24 Potatoes
spec_s7_lr_crops	Specify other crops	
crop_harvest	Crop harvest	
s7_cropsgroup	{s7_crop_name}	
s7_hrvest_sells	Crop harvest sells	
s7_har_quant	Quantity	
s7_har_unit	Unit	-222 Other(specify) 1 Gram(s) 2 Kilogram(s) 3 Millilitres 4 Litre(s) 5 Debe/bucket 6 Table spoon 7 Tea spoon 8 Bunch 9 Heap 10 Handful 11 Pakacha 12 Gorogoro 13 Bowl 14 Cup 15 Lid 16 Tin 17 Glass 18 Number of piece 19 Packet(s)

s7_har_kg	7.23 Does one unit of {s7_harvestunit} weigh more or less than 1 KG (or equal)?	1 More than 1 KG 2 Equal to 1 KG 3 Less than 1 KG
conver_factor	More than or equal to 1 KG: 7.24 How many KGs are in one {s7_harvestunit} approximately?	
conver_ratio	Less than 1 KG: 7.25 How many {s7_harvestunit} are in one KG approximately?	
s7_harvest	{cal_enumname}: In KGs, the amount harvested is {harvest_kgs}. Does this look correct?	0 No 1 Yes
s7_crop_mrkprice	7.26. What is the market price in KSH of 1 {s7_harvestunit} of {s7_crop_name}?	
s7_crop_price	{cal_enumname}: The price of 1 kg of {s7_crop_name} is {s7_crop_kg}. Does this look correct? yes/no	0 No 1 Yes
s7_harvest_check	7.27 Did you sell any of the harvest from {s7_crop_name}?	0 No 1 Yes
s7_revenue	7.28. How much was the total earned Revenue for {s7_crop_name} in the last 6 months?	
s7_expenses	7.29. What, if any, were the EXPENDITURES made by the household for this activity in the last 30 days?	
s7_lr_mostimpt_consump	7.30. Which was the most important crop for your household's own consumption that you cultivated in this in the last 12 months ?	-222 Other crop, specify 1 Maize 2 Sorghum 3 Millet 4 Beans 5 Cowpeas 6 Other pulses ,(green gram, pigeon pea, others) 7 Ground nuts 9 Tomato 10 Cabbage 11 Onion 12 Sukuma wiki 13 Spinach 14 Terere/mchicha(Amaranth) 15 Sagaa (Spider plant) 16 Mrenda (Jute mallow) 17 Managu (Black (African nightshade) 18 Carrot 19 Water melons 24 Potatoes

s7_lr_mostimp_income	7.31. Which was the important crops for your household's cash income in this in the last 12 months ?	<ul style="list-style-type: none"> -222 Other crop, specify 1 Maize 2 Sorghum 3 Millet 4 Beans 5 Cowpeas 6 Other pulses ,(green gram, pigeon pea, others) 7 Ground nuts 9 Tomato 10 Cabbage 11 Onion 12 Sukuma wiki 13 Spinach 14 Terere/mchicha(Amaranth) 15 Sagaa (Spider plant) 16 Mrenda (Jute mallow) 17 Managu (Black (African nightshade) 18 Carrot 19 Water melons 24 Potatoes
s7_invest_filter	7.32 In the last six months, meaning from {month_6m} to yesterday, did you put any money on farming activities such as selling or buying inputs?	<ul style="list-style-type: none"> 0 No 1 Yes
s7_invest_filter_source	7.33 What was the source ?	<ul style="list-style-type: none"> -888 Refuse to answer -222 Other, specify 1 Personal funds and savings 2 Other members of the household 3 Family or friends outside of the household 4 Cash transfer from government, NGOs or organisations 5 Other NGO 6 Loans from the savings groups
s7_investment	Crop investment	
crop_investmt	Crop investment	
s7_crop_invest	{s7_invest_name}	
s7_invest_source	<p>Let's talk about money from {s7_invest_name} you put in your farming activities.</p> <p>7.34/b> In the last six months, meaning from {month_6m} to yesterday, did you put any money from {s7_invest_name} into your farming activities such as selling or buying inputs/crops?</p>	<ul style="list-style-type: none"> 0 No 1 Yes

s7_invest_amt	7.35 In the last six months, meaning from {month_6m} until yesterday, how much money did you put into your farming activities from {s7_invest_name} ?	
s7_invest_correct	7.36. Does {s7_invest_tot} sound correct for the total amount spent?	0 No 1 Yes
s7_invest_more	7.37 Do you think it should be more or less?	1 More 2 Less
s7_invest_inc_dec	7.38 From which source should we increase or decrease the amount?	-888 Refuse to answer -222 Other, specify 1 Personal funds and savings 2 Other members of the household 3 Family or friends outside of the household 4 Cash transfer from government, NGOs or organisations 5 Other NGO 6 Loans from the savings groups
s7_invest_inc_dec_other	7.30b. Other specify	
s7_invest_cont	7.39 In the next 12 months, do you think you will: <i>HINT: read options</i>	-999 Don't know 1 Invest more money into developing your activity/business 2 Not invest more money but continue your level of activity 3 Decrease your investment or stop your business/activity
sec_7g	Fruit tree and permanent crops	
s7_fruittrees	7.40. Do you own any fruit bearing trees, permanent crops, or any other non-seasonal crops? A permanent crop is one that is planted once and can produce a harvest for several years without being replanted annually eg cassava, or sweet potatoes.	0 No 1 Yes
s7_treegift	7.41. Since the beginning of 2023, have you received any tree seedlings as a gift or at a reduced price from any organization?	0 No 1 Yes
s7_treegift_org	7.42. From which organisation did you obtain these seedlings?	-222 Others specify 1 NEMA(National Environmental Authority) 2 County Government 3 Water resources authority 4 KFS(Kenya Forest Service) 5 Kenya water tower agency 6 BOMA/LIFT-NK

		7 Financial institutions 8 KEFRI(Kenya Forest Research institute) 9 Community Forest Association/ Management (CFA) 10 National Government 11 World Food Programme (WFP) 12 NAWIRI 13 LOKADO 14 Northern Rangeland Trust 15 World Vision 16 Caritas- Catholic development organization
<u>s7_treegift_org_oth</u>	Other specify	
<u>s7_treegift_typ</u>	7.43. What is the name or type of seedling you received?	
<u>s7_treegift_no</u>	7.44. How many seedlings did you received?	
<u>s7_fruittrees_owned</u>	7.45. Do you have any of these fruit-bearing trees or shrubs of permanent crops? <i>HINT: Read out options</i>	-222 Other fruits specify _____ 1 Avocado 2 Mango 3 Papaya/ pawpaw 4 Pomegranate 5 Bananas 6 Passion fruit 7 Orange 8 Pixies (Tangarine) 9 Sweet melons 21 Lemon 22 Guava 23 Cassava 24 Arrow roots 25 Sweet potatoes
<u>spec_s7_fruittrees_owned</u>	7.45b. Specify	
<u>tree_harvest</u>	Tree harvest	
<u>s7_treesgroup</u>	{s7_tree_name}	
<u>s7_fruittrees_planted</u>	7.46. In the past 12 months, how many trees/shrubs/ bushes {s7_tree_name} have you or any member of your household planted?	
<u>s7_tree_freq</u>	7.47.How often per year (within 12 months) do you usually harvest {s7_tree_name}?	-999 Don't know 1 Once a year (e.g. one main harvest season) 2 Twice a year (two main harvest seasons) 3 Three times a year 4 Four times a year 5 More than four times a year

		6 Harvests continuously throughout the year 7 Irregular / occasional harvest (depends on demand or maturity)
s7_trees_sells	Tree harvest sells	
s7_tre_quant	Quantity	
s7_tre_unit	Unit	-222 Other(specify) 1 Gram(s) 2 Kilogram(s) 3 Millilitres 4 Litre(s) 5 Debe/bucket 6 Table spoon 7 Tea spoon 8 Bunch 9 Heap 10 Handful 11 Pakacha 12 Gorogoro 13 Bowl 14 Cup 15 Lid 16 Tin 17 Glass 18 Number of piece 19 Packet(s)
s7_tree_kg	7.49 Does one unit of {s7_treeunit} weigh more or less than 1 KG (or equal)?	1 More than 1 KG 2 Equal to 1 KG 3 Less than 1 KG
conver_factor2	More than or equal to 1 KG: 7.50 How many KGs are in one {s7_treeunit} approximately?	
conver_ratio2	Less than 1 KG: 7.51 How many {s7_treeunit} are in one KG approximately?	
s7_harv_tree	{cal_enumname}: In KGs, the amount harvested is {tree_har_kgs}. Does this look correct?	0 No 1 Yes
s7_tree_price	7.52. What was the market price for 1 {s7_treeunit} at the time for the {s7_tree_name}?	
s7_tree_mkprice	{cal_enumname}: The price of 1 kg of {s7_tree_name} is {s7_treehar_kg}. Does this look correct? yes/no	0 No 1 Yes

s7_trees_check	7.53.Did you sell any harvest from {s7_tree_name} in the last 12 months?	0 No 1 Yes
s7_tree_revenue	7.544How much was the total earned Revenue from selling {s7_tree_name} in that last harvest?	
s7_respo	{cal_enumname}: Who was the main respondent for this section?	1 Respondent 2 Spouse 3 Son/ daughter 4 Household relative e.g., uncle/aunt, niece, nephew, parent grandparent etc 6 Father 7 Mother
section9	SECTION 9: EMPLOYMENT	
s9_worked	9.01: In the past 3 months, have you or your household members worked for pay or in-kind payment for any person outside your household or for any institution?	0 No 1 Yes
s9_activities	9.02: In the past 3 months, what activities have you or your household members done:	1 Agricultural daily labor 2 Tending animals for other households 3 Other daily labor (construction, carpentry, repairing, electrician, mechanic, plumbing, etc.) 4 Household work for another household 5 Salaried/formal employment 6 Selling goods for someone outside the household
spec_s9_activities	9.02 Specify activity	
s9_activities_oth	9.03:Are there any other activities not mentioned above?	0 No 1 Yes
s9_activities_oth_nbr	If so, how many?	
s9_activity	Agricultural practices	
s9_activity_grp	{s9_activity_name}	
s9_activities_respo	9.04 Were you engaged in this {s9_activity_name}?	0 No 1 Yes
s9_hhmbr_worked	9.04b:In the past 3 months, how many other household members worked in {s9_activity_name} other than yourself?	
s9_name	Agricultural practices	
s9_member_grp	Respondent work hours	
s9_member_nam	Who worked in {s9_activity_name}?	1 Respondent

		2 Spouse 3 Son/ daughter 4 Household relative e.g., uncle/aunt, niece, nephew, parent grandparent etc 6 Father 7 Mother
s9_hours	9.05:In the past 7 days, how many hours has {s9_member_name} spend on {s9_activity_name}?	
s9_payment_typ	9.06:In the past 3 months, did {s9_member_name} receive any payment in cash, in-kind or both for {s9_activity_name}	1 Cash 2 In-kind 3 Both cash and in-kind payment
s9_earned	9.09:How much income did {s9_member_name} earn from {s9_activity_name} in cash the LAST MONTH?	
s9_monetary_val	9.09:What is the monetary value of goods and services provided LAST MONTH? <i>HINT: Please convert earning in kind to monetary value</i>	
section8	SECTION 8: BUSSINESS	
s8_bness_engage	8.01 Have you or your household engaged in any business or income generating activities in the past 12 months?	0 No 1 Yes
s8_current	8.02. How many different businesses does your household currently own or operate?	
s8_many_buss	8.03. Why do you own multiple businesses?	-222 Other (specify) 1 If one business does badly, the other does well 2 Some businesses are seasonal 3 To create employment for family or friends 4 To learn something new 5 An opportunity came up
spec_s8_buss	8.03b: Please specify	
s8_type	8.04 What type of business/es do you or others in the household own or operate?	-222 Other type 1 Poultry Farming 2 Fish Business 3 Bee keeping 4 Gums and Resins harvesting 5 Fodder sale 6 Sale of hides and skins 7 Kiosk 8 Dukas 9 Barber Shop 10 Grocery

		11 Tree Nursery 12 Tailoring 13 Livestock sale 14 Butchery 15 Beads, Crafts, Curio 16 Clothes eg Mutumba/New 17 Charcoal production 18 Miraa/Alcohol 19 Mobile money business 20 Transport eg bodaboda 21 Hotel/ Food business 22 Selling of fuelwood 23 Selling sugar 24 Petty trading
s8_type_oth	8.04.b Other, specify	
s8_importantx_bness	8.05. Which is your most important business in terms of household income?	-222 Other type 1 Poultry Farming 2 Fish Business 3 Bee keeping 4 Gums and Resins harvesting 5 Fodder sale 6 Sale of hides and skins 7 Kiosk 8 Dukas 9 Barber Shop 10 Grocery 11 Tree Nursery 12 Tailoring 13 Livestock sale 14 Butchery 15 Beads, Crafts, Curio 16 Clothes eg Mutumba/New 17 Charcoal production 18 Miraa/Alcohol 19 Mobile money business 20 Transport eg bodaboda 21 Hotel/ Food business 22 Selling of fuelwood 23 Selling sugar 24 Petty trading

spec_s8_importanx_bness	8.05b Specify other	
buss_operatg	Bussiness engage	
curr_bness	Current businesses	
s8_ownership	8.06. Is this {buss_name} business owned or operated by you or by someone else in your household? <i>HINT: Do not read options</i>	1 Target respondent 2 Someone else in the household 3 Co-owned by you and household member(s)
s8_date	8.07. When did you start this {buss_name}? <i>HINT: month & year</i>	
s8_guidance_filter	8.08. Did you receive any guidance or incentives from anyone to help start {buss_name}?	0 No 1 Yes
s8_guidance	8.08b. Where did you get this guidance or incentive to start {buss_name}?	-222 Other (specify) 1 National Government 2 County Government 3 BOMA/LIFT-NK 4 Kenya RedCross 5 Give Directly 6 SAPCONE 7 NAWIRI 8 Concern Worldwide 9 KELCOP
spec_s8_guidance	Other specify	
s8_resources	8.09. How did you obtain the resources you initially invested in {buss_name}? Do not read out the options <i>HINT: Do not read out options</i>	-999 Don't know -222 Other (Specify) -111 None 1 Loan from family/friends 2 Gift from family/friends 3 Sale of assets owned 4 Proceeds from another business 5 Own savings 6 Non-agricultural credit 7 Bank or other institution 8 Loan from money lender 9 Grant from BOMA 10 Grant from another NGO 11 Loan from mobile money (Mshwari, KCB, Tala etc) 12 Savings from a USLA/Sacco
spec_s8_resource	8.09b. Other specify	

s8_grp_filter	Do you operate {buss_name} by yourself or together with one or more co-owners outside the household?	1 Individually/within the household 2 As a group with members outside the household
s8_owners_start	8.10. How many owners did {buss_name} have including yourself when it started?	
s8_owners_now	8.11. How many owners does {buss_name} have now including yourself?	
s8_owners_left	8.12. What happened to the other owners who are no longer the co-owners now?	-222 Other specify 1 Other members relocated 2 Other members are operating individual businesses 3 Other members left the business but are not currently running any businesses
spec_s8_owners_left	8.12b. Other, specify	
s8_respble_start	8.13. Were you primarily responsible for {buss_name} when it was starting?	0 No 1 Yes
s8_respble_now	8.14. Are you primarily responsible for {buss_name} now?	0 No 1 Yes
s8_profit_ctrl	8.15. Do you control the profits from {buss_name}? Profit is money that is left after paying business expenses	0 No 1 Yes
s8_profit_share	8.16. What share of the profits is kept by you rather than the other owner(s)/partner(s)? <i>HINT: percentage</i>	
s8_co_owners	8.17. How many times per month do you typically meet with the co-owners/partners/group members of {buss_name} ?	
s8_disagre_filter	8.18. Did you ever have any disagreements with your business co-owners?	-999 Don't know -888 Refused to answer 0 No 1 Yes
s8_disagre	8.19. What was the disagreement about?	-999 doesn't know -888 refuse to answer -222 other (specify) 1 Profit sharing 2 Time committed to livelihood 3 Losses 4 Handling of livelihood
spec_s8_disagre	8.19b. Other specify	

s8_resolve	8.18. How were the disagreements resolved?	<ul style="list-style-type: none"> -999 Doesn't know -888 Refuse to answer -222 Other (Specify) 1 Compromised, calm conversation 2 Compromised, verbal argument 3 Physical fight 4 Acquiesced to co-owner's wishes 5 Escalated to elders
spec_s8_resolve	8.18b. Specify other	
s8_serious	8.19. Would you say any of the disagreements were serious?	<ul style="list-style-type: none"> -999 Don't know -888 Refused to answer 0 No 1 Yes
s8_seasonal	8.20. Is {buss_name} a seasonal business?	<ul style="list-style-type: none"> 0 No 1 Yes
s8_problem	8.21. What are the problems/challenges generally faced by your business?	<ul style="list-style-type: none"> -222 Other (Specify) -111 None 1 Seasonal business 2 Location of the business 3 Insufficient finance/investment 4 Lack of customers 5 Difficulties of supply 6 No profit 7 Lacking technical skills 8 Change of activity or business plan 9 Returned to education 10 Sickness or death 11 Moved or displaced 12 Family issues 13 Competition 14 Bandit attacks 15 Too much credit 16 Distance to markets 21 Theft
spec_s8_problem	8.21b. Other specify	
s8_sametype	8.22 How many business of the same types are in your village? <i>HINT: use -999 if respondent does not know</i>	
s8_little	8.23. Do you think this number is too little or too much?	1 Too little

		2 The right number 3 Too much
s8_compe	8.24. Do you feel running a business has become more or less competitive in your community since the beginning of 2023?	-999 Don't know 1 More competitive 2 Less competitive
s8_bizrevenue	Business Revenue and assets	
s8_revenuefreq	8.25. How frequently do you usually have revenue for this business?	-222 Other: specify 1 Daily 2 3-4 times a week 3 Weekly 4 Bi weekly 5 Monthly 6 every few months 7 Sporadically
s8_revenuefreq_osp	8.25. Specify other frequency	
s8_revenue	8.26. Did you have any revenue from {buss_name} LAST WEEK?	0 No 1 Yes
s8_cashsales_wk	8.27. How much were your cash sales {buss_name} LAST WEEK?	
s8_creditsales_wk	8.28. How much were your credit sales {buss_name} LAST WEEK?	
s8_bness_revenue	8.29. Did you have any revenue from {buss_name} in the LAST MONTH?	0 No 1 Yes
s8_cashsales_mnth	8.30. How much were your cash sales in the {buss_name} LAST MONTH?	
s8_creditsales_mnth	8.31. How much were your credit sales in the {buss_name} LAST MONTH?	
weekly_expenses	Weekly	
s8_wkly_inputs	Purchase of inputs, raw materials, merchandise, materials for the business	
s8_wkly_employeesalary	Salaries for employees, not including your own	
s8_wkly_rental	Rent for any locals, or kiosks	
s8_wkly_otherexpenses	Other expenses (utilities, transport, communications, taxes, etc.)	
monthly_expenses	Monthly	
s8_mnth_inputs	Purchase of inputs, raw materials, merchandise, materials for the business	
s8_mnth_employeesalary	Salaries for employees, not including your own	
s8_mnth_rental	Rent for any locals, or kiosques	
s8_mnth_otherexpenses	Other expenses (utilities, transport, communications, taxes, etc.)	
s8_month_famexpe	8.34. In the last MONTH, how much money did you take out of your business to cover family and household expenses, like for example food, healthcare, clothing,school fees, etc.?	

	<p><i>HINT: Enter -999 if don't Know</i></p>	
s8_month_famexpe_range	8.34b Could you give us a range?	1 LESS THAN KSh 1,000 2 KSh 1,000-KSh 2,500 3 KSh 2,501-KSh 5,000 4 KSh 5,001-KSh 7,500 5 KSh 7,501-KSh 10,000 6 KSh 10,001-KSh 12,500 7 KSh 12,501-KSh 15,000 8 KSh 15,001- KSh 30,000 9 KSh 30,001 - KSh 45,000 10 KSh 45,001 - KSh 60,000 11 KSh 60,001 - KSh 75,000 12 KSh 75,001 - KSh 90,000 13 KSh 90,001 - KSh 135,000 14 KSh 135,001 - KSh 180,000 15 ABOVE KSh 180,000
s8_month_salary	<p>8.35. In the LAST MONTH , how much did you pay yourself as a salary for your work at the business, or took out money for your personal expenses?</p> <p><i>HINT: Enter -999 if don't Know</i></p>	
s8_month_salary_range	8.36. Could you give us a range?	1 LESS THAN KSh 1,000 2 KSh 1,000-KSh 2,500 3 KSh 2,501-KSh 5,000 4 KSh 5,001-KSh 7,500 5 KSh 7,501-KSh 10,000 6 KSh 10,001-KSh 12,500 7 KSh 12,501-KSh 15,000 8 KSh 15,001- KSh 30,000 9 KSh 30,001 - KSh 45,000 10 KSh 45,001 - KSh 60,000 11 KSh 60,001 - KSh 75,000 12 KSh 75,001 - KSh 90,000 13 KSh 90,001 - KSh 135,000 14 KSh 135,001 - KSh 180,000 15 ABOVE KSh 180,000
s8_month_lossprofit	8.37. In the LAST MONTH, did you make a profit or a loss for the business after paying all the expenses for that month?	-111 None-No profit/loss 1 Profit 2 Loss
s8_month_loss	8.38. In the LAST MONTH, how much of a loss did you make with the business of {buss_name} after paying all the expenses? IMPORTANT! Any money that was	

	used to pay yourself or for household expenses should be included in the loss <i>HINT: Enter -999 if don't Know</i>	
s8_month_loss_range	8.39. Could you give us a range	1 LESS THAN KSh 1,000 2 KSh 1,000-KSh 2,500 3 KSh 2,501-KSh 5,000 4 KSh 5,001-KSh 7,500 5 KSh 7,501-KSh 10,000 6 KSh 10,001-KSh 12,500 7 KSh 12,501-KSh 15,000 8 KSh 15,001- KSh 30,000 9 KSh 30,001 - KSh 45,000 10 KSh 45,001 - KSh 60,000 11 KSh 60,001 - KSh 75,000 12 KSh 75,001 - KSh 90,000 13 KSh 90,001 - KSh 135,000 14 KSh 135,001 - KSh 180,000 15 ABOVE KSh 180,000
s8_month_profit	8.40. In the LAST MONTH,what were your business's profits after paying all the expenses? IMPORTANT! Any money that was used to pay yourself or for household expenses should be included in the profits. <i>HINT: Enter -999 if don't Know</i>	
s8_month_profit_range	8.40b. Could you give us a range?	1 LESS THAN KSh 1,000 2 KSh 1,000-KSh 2,500 3 KSh 2,501-KSh 5,000 4 KSh 5,001-KSh 7,500 5 KSh 7,501-KSh 10,000 6 KSh 10,001-KSh 12,500 7 KSh 12,501-KSh 15,000 8 KSh 15,001- KSh 30,000 9 KSh 30,001 - KSh 45,000 10 KSh 45,001 - KSh 60,000 11 KSh 60,001 - KSh 75,000 12 KSh 75,001 - KSh 90,000 13 KSh 90,001 - KSh 135,000 14 KSh 135,001 - KSh 180,000 15 ABOVE KSh 180,000
s8_asset_value	8.42 Now I would like to ask about the value of the assets in your {buss_name} / How would you like to report on the assets?	-888 (Prefer not to answer) 1 Total assets of business 2 The portion of assets that I own (or have control over) in the coowned business

s8_cash	8.43a. CASH IN HAND for the {buss_name}? Cash in Hand refers to money set aside to invest in future stock, equipment, and assets for the business.	
s8_stock	8.43b. STOCK for the {buss_name}? Stock refers to any goods or other items that the business group intends to sell for profit. e.g., meat, skins, hides, milk, yogurt. Please calculate the value (in KSH) for each item of STOCK, and then add all the numbers together	
s8_rawmaterial	8.43c. RAW MATERIALS for the {buss_name} materials that have not been used, or incomplete products?	
s8_savings	8.43e. BUSINESS SAVINGS for the {buss_name} ? Business Savings refers to money set aside for emergencies or for business partners to distribute to themselves.	
s8_credit	8.43f. OUTSTANDING CREDIT for the {buss_name} ? Credit refers to stock given to customers that will be paid in full at a later time. Include all credit that still needs to be paid to the business. Credit sales to business partners should be included	
s8_debt	8.43g. OUTSTANDING DEBT for the {buss_name} ? Debt refers to any loan that the business took out and will need to pay back	
s8_equipment	8.43d. EQUIPMENT for the {buss_name}? {cal_enumname}: Ask the respondent to list all the equipment and assets used mainly for this business. This is to be recorded in your notebooks to help capture the total amount of equipment/assets used for the business. Equipment include any equipment or processing materials	
s8_invest_filter	Now, we are going to talk about your investment activities on business activities. 8.44. In the last six months, meaning from {month_6m} to yesterday, did you or anyone in your household put any money on business activities?	0 No 1 Yes
s8_investment	Investment	
s8_invest_source	8.45 In the last six months, did your household put any money into business activities from the following: <i>HINT: Read out options</i>	-888 Refuse to answer -222 Other, specify 1 Personal funds and savings 2 Other members of the household 3 Family or friends outside of the household 4 Cash transfer from government, NGOs or organisations 5 Other NGO 6 Loans from the savings groups
s8_invest_source_other	Other specify	
buss_investmt	Business investment	
s8_crop_invest	{s8_invest_name}	
s8_saving_bs	Let's talk about money from {Personal funds and savings} you put in your business	0 No

	activities. In the last six months, meaning from {month_6m} to yesterday, did you or anyone in your household put any money from Personal funds and savings into your {s8_invest_name} ?	1 Yes
s8_invest_amt	8.46. Let's talk about money you put in your business activities. In the last six months, meaning from {month_6m} until yesterday, how much money did your household put into your business activities from {s8_invest_name} ?	
s8_invest_correct	8.47. Does {s8_invest_tot} sound correct for the total amount spent?	0 No 1 Yes
s8_invest_more	8.48. Do you think it should be more or less?	1 More 2 Less
s8_invest_inc_dec	8.49. From which source should we increase or decrease the amount?	-888 Refuse to answer -222 Other, specify 1 Personal funds and savings 2 Other members of the household 3 Family or friends outside of the household 4 Cash transfer from government, NGOs or organisations 5 Other NGO 6 Loans from the savings groups
s8_invest_inc_dec_other	8.49a. Other specify	
s8_invest_cont	8.50. In the next 12 months, do you think you will: <i>HINT: read options</i>	-999 Don't know 1 Invest more money into developing your activity/business 2 Not invest more money but continue your level of activity 3 Decrease your investment or stop your business/activity
s8_notoperate	<b.8.52. Since the beginning of 2023, did you or anyone in your household own any business/es, that are currently not operational?	0 No 1 Yes
buss_ntopertg	Bussiness engage	
s8_many_ntopertg	8.53. How many different businesses did your household own or operate that are currently not operational?	
s8_type_ntopertg	8.54. What type of business was this? <i>HINT: Start with the first business</i>	-222 Other type 1 Poultry Farming 2 Fish Business 3 Bee keeping 4 Gums and Resins harvesting

		5 Fodder sale 6 Sale of hides and skins 7 Kiosk 8 Dukas 9 Barber Shop 10 Grocery 11 Tree Nursery 12 Tailoring 13 Livestock sale 14 Butchery 15 Beads, Crafts, Curio 16 Clothes eg Mutumba/New 17 Charcoal production 18 Mira/Miraa/Alcohol 19 Mobile money business 20 Transport eg bodaboda 21 Hotel/ Food business 22 Selling of fuelwood 23 Selling sugar 24 Petty trading
s8_type_ntopertg_oth	8.54.b. Other, specify	
notoperating_bness	Non operating business	
s8_ntopertg_grp	{ntopertg_name}	
s8_why_ntopertg	8.55. Why did you select/ choose this {ntopertg_name}? <i>HINT: Do not read options</i>	-222 Other (Specify) 1 Food security 2 Market demand 3 Profitability 4 Resource availability 5 Personal motivation 6 Diversification (minimise shocks and risks) 7 Environmentally friendly 8 Suggested by BOMA /LIFT NK 9 Suggested by Government 10 Influence by group members 11 Skills and expertise
spec_s8_why_ntopertg	specify other	
s8_date_started	8.56. When did you start this {ntopertg_name}? <i>HINT: month & year</i>	
s8_date_stopped	8.57. Which year and month did {ntopertg_name} stop it's operations?	
s8_seasonal_ntopertg	8.58. Was {ntopertg_name} business seasonal?	0 No

		1 Yes
s8_operator	Was {ntopertg_name} owned or operated by you or by someone else in your household?	1 Kept by the respondent 2 By someone else in the household 3 By the respondent and other household members
s8_closed	8.59 Why was {ntopertg_name} closed? <i>HINT: Do not read out options</i>	-222 Other (Specify) 1 Seasonal business 2 Location of the business 3 Insufficient finance/investment 4 Lack of customers 5 Difficulties of supply 6 No profit 7 Lacking technical skills 8 Change of activity or business plan 9 Returned to education 10 Sickness or death 11 Moved or displaced 12 Family issues 13 Competition 14 Bandit attacks
spec_s8_closed	8.59b Other, specify	
s8_resources_ntoper	8.60. How did you obtain the resources you initially invested in {ntopertg_name}? Do not read out the options <i>HINT: Do not read out options</i>	-999 Don't know -222 Other (Specify) -111 None 1 Loan from family/friends 2 Gift from family/friends 3 Sale of assets owned 4 Proceeds from another business 5 Own savings 6 Non-agricultural credit 7 Bank or other institution 8 Loan from money lender 9 Grant from BOMA 10 Grant from another NGO 11 Loan from mobile money (Mshwari, KCB, Tala etc) 12 Savings from a USLA/Sacco
spec_s8_res	8.60b. Other specify	

s8_filter_operate	8.61. Will {ntopertg_name} continue its operations in the future?	0 No 1 Yes
s8_operate	8.62. How many months from now are you expecting to resume {ntopertg_name} operations?	
s8_grp_filter_ntopertg	8.63. Did you operate {ntopertg_name} by yourself or together with one or more co-owners?	1 Individually/within the household 2 As a group with members outside the household
s8_owners_start_ntopertg	8.64. How many owners did {ntopertg_name} have including yourself when it started?	
s8_owners_now_ntopertg	8.65. How many owners did {ntopertg_name} have when it closed including yourself?	
s8_owners_left_ntopertg	8.66. What happened to the other owners who are no longer the co-owners now?	-222 Other specify 1 Other members relocated 2 Other members are operating individual businesses 3 Other members left the business but are not currently running any businesses
spec_s8_owners_left_nto	8.66b. Other, specify	
s8_respble_start_ntopertg	8.67. Were you primarily responsible for {ntopertg_name} when it was starting?	0 No 1 Yes
s8_respble_now_ntopertg	8.68. Were you primarily responsible for {ntopertg_name} when it closed?	0 No 1 Yes
s8_profit_ctrl_ntopertg	8.69. Did you control the profits from {ntopertg_name}?	0 No 1 Yes
s8_profit_share_ntopertg	8.70. What share of the profits were kept by you rather than the other owner(s)/partner(s)? <i>HINT: percentage</i>	
s8_meetings	8.71. How many times per month did you typically meet with the co-owners/partners/group members of {ntopertg_name}?	
s8_disagre_filter_not	8.72. Did you ever have any disagreements with your business co-owners?	-999 Dont know -888 Refused to answer 0 No 1 Yes
s8_disagre_not	8.73. What was the disagreement about?	-999 doesn,t know -888 refuse to answer

		<ul style="list-style-type: none"> -222 other (specify) 1 Profit sharing 2 Time committed to livelihood 3 Losses 4 Handling of livelihood
spec_s8_disagre_not	8.73b. Other specify	
s8_resolve_not	8.74. How were the disagreements resolved?	<ul style="list-style-type: none"> -999 Doesn't know -888 Refuse to answer -222 Other (Specify) 1 Compromised, calm conversation 2 Compromised, verbal argument 3 Physical fight 4 Acquiesced to co-owner's wishes 5 Escalated to elders
spec_s8_resolve_not	8.74b. /b Specify other	
s8_serious_not	8.75. Would you say any of the disagreements were serious?	<ul style="list-style-type: none"> -999 Dont know -888 Refused to answer 0 No 1 Yes
s8_mentor_filter	8.81. Have you received a visit from a business mentor for any of your household businesses since July 2023?	<ul style="list-style-type: none"> 0 No 1 Yes
mentor	Mentorship support	
s8_mentr_vsts	8.82. How many times have you been visited in the past 8 months?	
s8_mentr_same	8.83. Were you visited by the same mentor during these visits?	<ul style="list-style-type: none"> 0 No 1 Yes
s8_mentr_lastvst	8.84. When was the last visit by any Mentor? <i>HINT: month & year</i>	
s8_hwlong	8.85. How long was the last mentor's visit in hours?	
s8_mentr_topics	8.86. What did you talk about with the mentor during this last visit? <i>HINT: Do not read out options</i>	<ul style="list-style-type: none"> -222 Other specify _____ 1 Business/enterprise type selection. 2 Business plan 3 Business branding 4 Business Marketing/ market linkages 5 Customer care 6 Product value addition 7 Business risks analysis 8 Business record keeping

		9 Savings Plan. 10 How to plan for your monthly savings 11 Personal financial plan 12 Business stock sheet 13 Linkages to financial institutions 14 Conflict resolution
s8_mentr_topics_osp	<b.8.86b. Specify other topic	
s8_respo	{cal_enumname}: Who was the main respondent for this section?	1 Respondent 2 Spouse 3 Son/ daughter 4 Household relative e.g., uncle/aunt, niece, nephew, parent grandparent etc 6 Father 7 Mother
section10	SECTION 10: ASSETS, FINANCE, REMITTANCES AND TRANSFERS	
s10_ownasset	10.01: Does any member of your household own at present and in working condition? <i>HINT: Read out each option</i>	-222 k. Other specify _____ -111 None 1 Fans 2 Animal-drawn vehicles 3 Bed Sheets/Bed covers/Pillow Cases 4 Beds 5 Bicycle/Tricycles 6 Chaff cutter 7 Chairs 8 Cooking Sufurias/Pots 9 Dining Table 10 Gas Cooker/Meko 11 Forks/Jembe/Rake/Spade/Muttock/file 12 Frying Pans 13 Hammer/Mallet 14 Iron box-charcoal 15 Mobile Handset-basic/smartphone 16 Motor vehicle tyres/tubes 17 Motorcycle for personal use 18 Muttock/Saw/Panga/Axe/Slasher 19 Plates/Bowls 20 Radio 21 Sofa sets 22 Solar Lamps 23 Solar panels

		24 Stools 25 Television 26 Torches 27 Watches/Clocks 28 Wheel barrow 29 Writing/Study Tables
spec_s10_ownasset	10.01:Please specify any other asset	
s10_assets	assets	
assets_own_grp	{s10_assets_name}	
s10_assets_bz	10.02 Is this {s10_assets_selected} mainly used for business?	0 No 1 Yes
s10_assets_bz_confirm	10.02b Did you include this {s10_assets_selected} when you told me the value of assets associated with your biz earlier in the interview?	0 No 1 Yes
s10_assetno	10.02c How many {s10_assets_selected} does your household own at present?	
s10_assets_value	10.02d In total, for all of the {s10_assets_selected} you have, how much would you have to spend if you had to buy it?	
s10_remittance	10.03 Did you receive any remittances in the past 3 months? By remittances, we mean transfer, in-kind or in-cash that come from someone OUT of the village.	0 No 1 Yes
s10_remit_type	10.04 Was this remittance in cash, in kind, or both?	1 Cash 2 In-kind 3 Both cash and in-kind
s10_remit_amount	10.05 How much did you receive in the past 3 months? <i>HINT: If in kind ask about the monetary value of the inkind remittance</i>	
s10_hsnp	10.06 Is your household registered with HSNP (Hunger Safety Net Programme)?	0 No 1 Yes
s10_hsnp_group	Hsp	
s10_hsnp_benefit	10.07 Does your household receive benefits from HSNP?	0 No 1 Yes
s10_hsnp_type	10.08 What type of HSNP benefits does your household receive?	1 Regular 2 Emergency 3 Both
s10_hsnp_amount	10.09 What is the monthly amount the participant's household receives from HSNP? (If household receives money every two months, divide value by half)	

support	Organisational support	
s10_support_receive	10.10 In the past 12 months, did anyone in your household get any support, cash, or in-kind, through an NGO, the Government or any other organization?	0 No 1 Yes
s10_support_who	10.11 Who provided this support?	<ul style="list-style-type: none"> -222 Others specify 1 NEMA(National Environmental Authority) 2 County Government 3 Water resources authority 4 KFS(Kenya Forest Service) 5 Kenya water tower agency 6 BOMA/LIFT-NK 7 Financial institutions 8 KEFRI(Kenya Forest Research institute) 9 Community Forest Association/ Management (CFA) 10 National Government 11 World Food Programme (WFP) 12 NAWIRI 13 LOKADO 14 Northern Rangeland Trust 15 World Vision 16 Caritas- Catholic development organization
s10_support_who_osp	Other, specify	
support_r1	For each support organization	
support_gp1	Organization Support	
s10_support_what	10.13 What type of support did {support_name} provide?	<ul style="list-style-type: none"> -222 Other, specify 1 Cash 2 In-kind
s10_support_what_oth	Other, specify	
s10_support_cash	10.14:Cash transfer: How much cash transfers were received from this source in the past 12 months?	
s10_support_inkind	10.15:In-kind transfer: What type of in-kind transfer was it?	<ul style="list-style-type: none"> -222 Other, specify 1 Scholarship materials 2 Agricultural inputs 3 Livestock 4 Clothing items 5 Food items 6 Hygiene 7 Medicine

s10_support_inkind_osp	In-kind transfer: Other, specify	
s10_support_inkindvalue	10.16.In-kind transfer: How much would you have spent for it if you had to buy it?	
s10_loans	Loans	
s10_out_loans	10.17:Do you or anyone from your household have any outstanding loans?	0 No 1 Yes
s10_loan_nbr	10.17a:How many loans?	
s10_loan_source	10.18:From where did most of the outstanding loan come from? (most in amount)?	-222 Other (specify next screen) _____ 1 Neighbor 2 Friend 3 Shopkeeper 4 Non-household family member 5 Work place 6 Micro Finance Institutions (MFI) 7 Moneylender /shylok 8 Village Savings and Loans Associations (VSLA) 9 NGO 10 Government 11 SACCO 12 ROSCA 13 Other savings group not mentioned 14 Mobile loans(M-shwari, Tala, etc.) 15 Banks 16 Household member
spec_s10_loan_source	10.18a :Specify	
s10_loan_purpose	10.19:What was the purpose of this last loan taken?	-222 Other (Specify) 1 Household Expenses 2 School Expenses 3 Medical Expenses 4 Business Expenses 5 Household Assets 6 Travel 7 Ceremonies
s10_loan_purpose_oth	Other specify	
s10_loan_total	10.19b: What is the total outstanding loan balance that your household received and is yet to pay?	
s10_loan_lent	10.20: Have you or anyone in your household lent any money to someone that needs to be repaid?	0 No 1 Yes
s10_loan_lent_nbr	10.21: How many loan have you given out that are currently outstanding	

s10_loan_lent_amt	10.22: What is the total outstanding balance? <i>HINT: loans the household has lent out to others</i>	
save_loc	10.23 In the last 3 months, have you or someone from your household kept money at/with <i>HINT: READ OUT OPTIONS</i>	<ul style="list-style-type: none"> -888 Prefer not to answer -222 Other 0 No savings 1 With family member outside the household 2 With a neighbor 3 With a friend 4 With a shopkeeper 5 Village Savings and Loans Association (VSLA) 6 Women's group 7 Other savings groups including SACCO, Unions, or other 8 Box in the household 9 In your pocket, your clothes or in a bag that you carry 10 Commercial bank 11 Mobile money 12 A secret place in your home 21 ROSCA / Merry-go-round
save_loc_osp	10.24 Please specify: In what other location do you save money?	
save_r	Savings information	
save_gp	{save_name}	
save_now	10.25 {save_name}: Are you the one who is keeping money using this method at the moment?	<ul style="list-style-type: none"> 0 No 1 Yes
save_who	10.26 Who keeps money with {save_name}?	<ul style="list-style-type: none"> -222 Other (specify) 1 Head 2 Spouse 3 Son/ daughter 4 Household relative e.g., uncle/aunt, niece, nephew, parent grandparent etc 5 Non household relative e.g., friend 6 Father 7 Mother
save_balance	10.27 In total how much is kept in {save_name} currently?	
save_r	Savings information	
sav_group	Savings group	
s10_saving_support	10.28 Is this savings group supported by any organization?	<ul style="list-style-type: none"> 0 No 1 Yes

s10_saving_support_org	10.29 Which organisation was this?	<ul style="list-style-type: none"> -222 Other (specify) 1 National Government 2 County Government 3 BOMA/LIFT-NK 4 Kenya RedCross 5 Give Directly 6 SAPCONE 7 NAWIRI 8 Concern Worldwide 9 KELCOP
s10_saving_support_org_other	10.29b Other, specify.	
s10_jointlvl	10.30 As part of your savings group, do you invest in a joint business such as animal rearing, farming or any other economic activity	<ul style="list-style-type: none"> 0 No 1 Yes
s10_joint_erl	10.31 Did you already tell me about this activity when we talked about businesses earlier in the survey or is this a separate, additional activity?	<ul style="list-style-type: none"> 0 No 1 Yes
s12_environassess_grup	SECTION 12: ENVIRONMENTAL ASSESSMENT, KNOWLEDGE, ATTITUDES	
project_group	Project	
s12_project1	Select your {project_index_ord2} preferred project.	<ul style="list-style-type: none"> 1 A new elementary school 2 A project to improve electricity access 3 A project to restore the forest by planting new trees 4 A project to bring water to people's houses via tubes 5 A project to bring more jobs
s12_environ_assess	Enviromental assessment	
s12_b	b: The climate is becoming warmer over time, with less predictable rains	<ul style="list-style-type: none"> -999 Don't know -888 Refuse to answer 1 Strongly agree 2 Agree 3 Neither agree or disagree 4 Disagree 5 Strongly disagree
s12_c	c: Repeated drought does affect fuelwood and water in the future.	<ul style="list-style-type: none"> -999 Don't know -888 Refuse to answer 1 Strongly agree 2 Agree

		3 Neither agree or disagree 4 Disagree 5 Strongly disagree
s12_d	d: Repeated drought can make the forest weaker	-999 Don't know -888 Refuse to answer 1 Strongly agree 2 Agree 3 Neither agree or disagree 4 Disagree 5 Strongly disagree
s12_p	p: I believe that my children will experience more droughts across their lifetimes than I have experienced	-999 Don't know -888 Refuse to answer 1 Strongly agree 2 Agree 3 Neither agree or disagree 4 Disagree 5 Strongly disagree
s12_q	q: I believe that I can teach my children strategies that will help them cope with droughts and floods.	-999 Don't know -888 Refuse to answer 1 Strongly agree 2 Agree 3 Neither agree or disagree 4 Disagree 5 Strongly disagree
s12_e	e Cutting down trees is helpful for livestock grazing.	-999 Don't know -888 Refuse to answer 1 Strongly agree 2 Agree 3 Neither agree or disagree 4 Disagree 5 Strongly disagree
s12_f	f: Cutting down trees to make charcoal can make soils drier and less able to support livestock.	-999 Don't know -888 Refuse to answer 1 Strongly agree 2 Agree 3 Neither agree or disagree 4 Disagree

		5 Strongly disagree
s12_g	g: Burning charcoal is one of the activities that leads to repeated drought	-999 Don't know -888 Refuse to answer 1 Strongly agree 2 Agree 3 Neither agree or disagree 4 Disagree 5 Strongly disagree
s12_h	i: Keeping many animals in a small place place can ruin that place for future grazing	-999 Don't know -888 Refuse to answer 1 Strongly agree 2 Agree 3 Neither agree or disagree 4 Disagree 5 Strongly disagree
s12_l	l: Kenyan law allows women to own communal land in the land of their birth and where they are married.	-999 Don't know -888 Refuse to answer 1 Strongly agree 2 Agree 3 Neither agree or disagree 4 Disagree 5 Strongly disagree
s12_m	m: The extent of environmental problems is exaggerated	-999 Don't know -888 Refuse to answer 1 Strongly agree 2 Agree 3 Neither agree or disagree 4 Disagree 5 Strongly disagree
s12_n	n: Some of the activities that people do make droughts come more frequently	-999 Don't know -888 Refuse to answer 1 Strongly agree 2 Agree 3 Neither agree or disagree 4 Disagree 5 Strongly disagree

s12_o	o: God, and not humans, is the cause of rain and drought, and people need not take any measures to mitigate environmental problems	-999 Don't know -888 Refuse to answer 1 Strongly agree 2 Agree 3 Neither agree or disagree 4 Disagree 5 Strongly disagree
s12_drtcause	12.03: If the frequency and intensity of drought is increasing, do you think it is: <i>HINT: read out options except don't know</i>	-999 Don't know 1 Caused mostly by human activities 2 Caused mostly by natural changes not by humans 3 Neither because droughts are the same as they have always been
s12_drought_prep	12.04: What are some of the things that you do to prepare for drought or hard times? <i>HINT: select all those that apply</i>	-222 Other: specify -111 None 1 Saving money from business 2 Limit credit given to customers 3 Purchase business insurance 4 Use clean cooking stoves to reduce firewood use 5 Help with regeneration of grazing lands 6 Plant trees around homes and schools 7 Protect forest from destruction and illegal logging 8 Take greater care in storing and using water 9 Compost organic waste 10 Harvest water from roof or otherwise storing water 11 Migration to greener areas 12 Vaccination of animals 13 Observing or respecting alerts from authoritative sources such as NDMA
s12_drought_prep_osp	Other specify	
s12_disaster_prep	12.05 What are some of the things that you can do to prepare for other types of disasters such as flooding or massive disease spread?	-222 Other -111 None 1 Clearing drainage areas and dykes 2 Liaising with key stakeholders to respond to disaster promptly to avert massive loss of life 3 Practicing high level of hygiene to control pathogenic diseases

		4 Clearing bush to reduce habitat of mosquitos that carry malaria 5 Vaccination of humans against diseases
s12_disaster_prep_oth	Other specify	
section13	SECTION 13: LIFE SATISFACTION , AND GENERAL WELL BEING	
section_13a	Subsection 13A: General Wellbeing	
s13_health	13.01 In general, how would you rate your health?	1 Very healthy 2 Somewhat healthy 3 Somewhat unhealthy 4 Unhealthy
s13_mentalhealthstatus	13.02 In general, would you say your mental health is: excellent, very good, good, fair or poor? <i>HINT: Mental health is a state of mental well-being that enables people to cope with the stresses of life, realize their abilities, learn well and work well, and contribute to their community</i>	1 Excellent 2 Very good 3 Fair 4 Poor
s13_physicalhealth	13.03 Now thinking about your physical health, which includes physical illness and injury, for how many days during the past 30 days was your physical health not good?	
s13_mentalhealth	13.04 Now thinking about your mental health, which includes stress, depression and problems with emotions, for how many days during the past 30 days was your mental health not good? <i>HINT: Mental health is a state of mental well-being that enables people to cope with the stresses of life, realize their abilities, learn well and work well, and contribute to their community</i>	
s13_poorhealth	13.05 During the past 30 days, for about how many days did poor physical or mental health keep you from doing your usual activities, such as self-care, work or recreation?	
section_13b	Subsection 13B: Life's satisfaction: Cantrill's Ladder	
s13_lifesatisfacton	13.06 How would you describe your satisfaction with life? The top rung of the ladder (10) represents very satisfied and the bottom of the ladder (1) represents very dissatisfied. On which step would you place yourself? <i>HINT: Show the respondent the picture of the ladder</i>	
s13_step	13.07 On the same ladder, which step do you believe you will be on in 5 years? <i>HINT: Show the respondent the picture of the ladder</i>	
s13_economicstatus	13.08 Now, assume that the top rung of the ladder (10) represents the best-off members of your community and that the lowest rung (1) are the poorest individuals. Where would you place your household on the ladder in terms of economic status? <i>HINT: Show the respondent the picture of the ladder</i>	

s13_futurestatus	13.09 Where do you think you will be on this ladder 5 years from now – in terms of your economic status? <i>HINT: Show the respondent the picture of the ladder</i>	
section_13c	Subsection 13C: Kessler 6	
s1327	13.27: Nervous	-999 Don't know -888 Refused 1 All the time 2 Most of the time 3 Some of the time 4 A little of the time 5 None of the time
s1328	13.28: Hopelessness	-999 Don't know -888 Refused 1 All the time 2 Most of the time 3 Some of the time 4 A little of the time 5 None of the time
s1329	13.29: Restless or fidgety	-999 Don't know -888 Refused 1 All the time 2 Most of the time 3 Some of the time 4 A little of the time 5 None of the time
s1330	13.30: So depressed that nothing could cheer you up	-999 Don't know -888 Refused 1 All the time 2 Most of the time 3 Some of the time 4 A little of the time 5 None of the time
s1331	13.31: That everything was difficult	-999 Don't know -888 Refused 1 All the time 2 Most of the time 3 Some of the time 4 A little of the time

		5 None of the time
s1332	13.32: Worthless	-999 Don't know -888 Refused 1 All the time 2 Most of the time 3 Some of the time 4 A little of the time 5 None of the time
section14	SECTION 14: SOCIAL CAPITAL, COHESION AND FINANCIAL HEALTH	
section_14a	Subsection14: A Social Capital	
s14_brmoney	14.01 If your family needed to borrow money, without interest, to meet basic household expenses, is there someone in your village who would be prepared to help you?	-999 Dont know 0 No 1 Yes
s14_group	14.02 Are you or members of your households part of any of the following types of groups or associations? <i>HINT: Read all options</i>	-999 Don't know -222 Other -111 None of them 1 Civil associations (senior citizen's groups, women's associations, recreational groups) 2 Cooperatives, irrigator's associations, natural resource management groups 3 Credit/finance group, (credit cooperative, savings group) 4 Religious group 5 Women's group 6 Mutual help group 7 Mother's group 8 Governmental group or institution 9 Welfare Association/Burial Group 10 Youth groups 11 Persons with Disabilities groups 12 Elders groups 13 Men's groups
spec_s14_groups	Specify other group	
s14_groups	Groups	
grps_own_grp	{s14_grp_name}	
s14_grppart	14.03 How many times did you or one of your household members participate in a {s14_grp_name} in the last 12 months?	-999 Don't know 1 Yearly 2 A few times a year

		3 Monthly 4 A few times a month 5 Weekly 6 A few times a week 7 Daily
section_14b	Subsection 14B: Social Cohesion and Trust	
s14_trusted	14.06 Would you say that most people can be trusted or that most people cannot be trusted?	-999 Don't know 1 Most people can be trusted 2 Most people cannot be trusted
trust_grp	Trusted Group	
s14_fam	a. Your family	1 Trust completely 2 Trust somewhat 3 Do not trust very much 4 Do not trust at all
s3_neigh	b. Your neighborhood	1 Trust completely 2 Trust somewhat 3 Do not trust very much 4 Do not trust at all
s14_native_lg	c. People in this community who speak the same native language as you	1 Trust completely 2 Trust somewhat 3 Do not trust very much 4 Do not trust at all
s14_meet	d. People you meet for the first time	1 Trust completely 2 Trust somewhat 3 Do not trust very much 4 Do not trust at all
s14_kenyan	e. People who are not Kenyan	1 Trust completely 2 Trust somewhat 3 Do not trust very much 4 Do not trust at all
section_14c	Subsection 14C: Financial Health	
s14_sourcemoney	14.08: Now, imagine that you have an emergency and you need to pay KSH. 10,000. What would be the MAIN source of money that you would use to come up with the KSH. 10,000 within the NEXT 30 DAYS?	-999 Dont know -888 (Refused) -222 Some other source 0 I could not come up with the money

		1 Personal savings 2 Family, relatives, or friends 3 Money from working 4 Borrowing from a bank, employer, or private lender 5 Selling assets 21 Borrowing from savings group
spec_s14_sourcemoney	14.08b : Please specify other source	
s14_difftogetmny	14.09 : How difficult would it be for you to come up with [KSH. 10,000] within the NEXT 30 DAYS? Would it be very difficult, somewhat difficult or not difficult at all? <i>HINT: Ksh</i>	-999 Dont know -888 Refused to Answer 1 Very difficult 2 Somewhat difficult 3 Not difficult at all
s14_soldassets	14.10: Over the past 12 months have you sold assets to offset medical bills?	0 No 1 Yes
section11	SECTION 11: FOOD CONSUMPTION	
sec11_items	Household Consumption Items	
s11_food_7d_consumption	Food 7-day Consumption	
s11_food_7d_cons_items	11.01 In the past 7 days, did your household consume any of the following food items?	-111 None
s11_food_7d_cons_items_repeat	Item details for Food 7-day Consumption	
s11_unit	11.01.b What was the unit of the {item_label_7_cons} consumed last 7 days?	-222 Other(specify) 1 Gram(s) 2 Kilogram(s) 3 Millilitres 4 Litre(s) 5 Debe/bucket 6 Table spoon 7 Tea spoon 8 Bunch 9 Heap 10 Handful 11 Pakacha 12 Gorogoro 13 Bowl 14 Cup 15 Lid 16 Tin 17 Glass

		18 Number of piece 19 Packet(s)
s11_quantity	11.01.a How many {choice_label} of {item_label_7_cons} did your household consume in the past 7 days?	
s11_market_value	11.01.c What was the total market value of {item_label_7_cons} consumed in the past 7 days?	
s11_food_7d_expenditure	Food 7-day Expenditure	
s11_food_7d_exp_items	11.02 In the past 7 days, did your household spend money on any of the following food items?	-111 None
s11_food_7d_exp_items_repeat	Item details for Food 7-day Expenditure	
s11_expenditure_7d	11.02.a How much did your household spend on {item_label_7_exp} in the past 7 days?	
s11_nonfood_1m_expenditure	Non-food 1-month Expenditure	
s11_nonfood_1m_exp_items	11.03 In the past 30 days, did your household spend money on any of the following items?	-111 None
s11_nonfood_1m_exp_items_repeat	Item details for Non-food 1-month Expenditure	
s11_expenditure_1m	11.03.a How much did your household spend on {item_label_1m} in the past 30 days?	
s11_nonfood_3m_expenditure	Non-food 3-month Expenditure	
s11_nonfood_3m_exp_items	11.04 In the past 3 months, did your household spend money on any of the following items?	-111 None
s11_nonfood_3m_exp_items_repeat	Item details for Non-food 3-month Expenditure	
s11_expenditure_3m	11.04.a How much did your household spend on {item_label_3m} in the past 3 months?	
s11_nonfood_12m_expenditure	Non-food 12-month Expenditure	
s11_nonfood_12m_exp_items	11.05 In the past 12 months, did your household spend money on any of the following items?	-111 None
s11_nonfood_12m_exp_items_repeat	Item details for Non-food 12-month Expenditure	
s11_expenditure_12m	11.05.a How much did your household spend on {item_label_12m} in the past 12 months?	
section_11b	Subsection11B: Household Food Insecurity Access Scale (HFIAS)	
s11_foodworry	11.12 In the past four weeks, did you worry that your household would not have enough food? IF YES: How often did this happen?	1 Rarely, once or twice in the past four weeks 2 Sometimes, three to ten times in the past four weeks 3 Often, more than ten times in the past four week 4 No
s11_preferredfoods	11.13 In the past four weeks, were you or any household member not able to eat the kinds of foods you preferred because of a lack of resources? IF	1 Rarely, once or twice in the past four weeks 2 Sometimes, three to ten times in the past four

	YES: How often did this happen?	weeks 3 Often, more than ten times in the past four week 4 No
s11_ltdvariety	11.14 In the past four weeks,, did you or any household member have to eat a limited variety /b/ of foods due to a lack of resources /b/ ? IF YES: How often did this happen?"	1 Rarely, once or twice in the past four weeks 2 Sometimes, three to ten times in the past four weeks 3 Often, more than ten times in the past four week 4 No
s11_fddidntwnt	11.15 In the past four weeks,, did you or any household member have to eat some foods that you really did not want to eat because of a lack of resources /b/ to obtain other types of food? IF YES: How often did this happen?	1 Rarely, once or twice in the past four weeks 2 Sometimes, three to ten times in the past four weeks 3 Often, more than ten times in the past four week 4 No
s11_smallfood	11.16 In the past four weeks,, did you or any household member have to eat a smaller meal /b/ than you felt you needed because there was not enough food /b/ ? IF YES: How often did this happen?	1 Rarely, once or twice in the past four weeks 2 Sometimes, three to ten times in the past four weeks 3 Often, more than ten times in the past four week 4 No
s11_fewermeals	11.17 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? IF YES: How often did this happen?	1 Rarely, once or twice in the past four weeks 2 Sometimes, three to ten times in the past four weeks 3 Often, more than ten times in the past four week 4 No
s11_nofood	11.18 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? IF YES: How often did this happen?	1 Rarely, once or twice in the past four weeks 2 Sometimes, three to ten times in the past four weeks 3 Often, more than ten times in the past four week 4 No
s11_sleephungry	11.19 In the past four weeks,, did you or any household member go to sleep at night hungry because there was not enough food? IF YES: How often did this	1 Rarely, once or twice in the past four weeks 2 Sometimes, three to ten times in the past four

	happen?	weeks 3 Often, more than ten times in the past four week 4 No
s11_gohungry	11.20 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? IF YES: How often did this happen?	1 Rarely, once or twice in the past four weeks 2 Sometimes, three to ten times in the past four weeks 3 Often, more than ten times in the past four week 4 No
section_11c	Household Food Security (HFS)	
s11_lesspreferred	In the past 7 days, how often has your household had to: 11.21: Rely on less preferred and less expensive foods?	
s11_borrowfood	In the past 7 days, how often has your household had to: 11.22: Borrow food, or rely on help from a friend or relative?	
s11_limitportion	In the past 7 days, how often has your household had to: 11.23: Limit portion size at mealtimes?	
s11_restrict_consumption	In the past 7 days, how often has your household had to: 11.24: Restrict consumption by adults in order for small children to eat?	
s11_reducemeals	In the past 7 days, how often has your household had to: 11.25: Reduce number of meals eaten in a day?	
s11_eatfood	11.26: How many times a day (on average) did YOU eat food (not including tea)? Over the last 7 days	
s11_enoughmoney	11.27: How many days did YOU not have enough food or money to buy food? Over the last 7 days	
s11_sleighthungry	11.28: How many days did YOU go to sleep at night without an evening meal because there was not enough food? Over the last 7 days	
s11_daynight	11.29: How many days did YOU go a whole day and night without eating anything because there was not enough food? Over the last 7 days	
s11_childrenhungry	11.30: How many days did YOUR CHILDREN go to sleep at night without an evening meal because there was not enough food, over the last 7 days? Children living at home (6 months - 5 years old)	
s11_children_daynight	11.31: How many days did YOUR CHILDREN go a whole day and night without eating anything because there was not enough food, over the last 7 days? Children ages 6 month- 5 years living at home.	
interview_end	SECTION 15: END OF INTERVIEW	
s15_priphone	15.01 What is your primary phone number? <i>HINT: If no phone number, enter -555</i>	
s15_priphone_confirm	15.01 Re-enter. What is your primary phone number?	

second_no	Do you have a secondary phone number?	0 No 1 Yes
s15_secphone	15.02 What is your secondary phone number? <i>HINT: If no phone number, enter -555</i>	
s15_phone_confirm	15.02 Re-enter. What is your secondary phone number?	
s15_otherphone	15.03 Is there any other number we can reach you on that belongs to someone in your household or compound?	0 No 1 Yes
s15_phonenumber	15.04 What is a phone number for someone in your household or compound that we could reach you on? <i>HINT: If no phone number, enter -555</i>	
s15_otherphone_confirm	15.04 Re-enter the phone number of the person in your household or compound that we could reach you on. <i>HINT: If no phone number, enter -555</i>	
s15_ownername	15.05 What is the name of the person who owns this number?	
s15_ownership	15.06 What is {s15_ownername}'s relationship to you?	-222 Other (specify) 1 Head 2 Spouse 3 Son/ daughter 4 Household relative e.g., uncle/aunt, niece, nephew, parent grandparent etc 5 Non household relative e.g., friend 6 Father 7 Mother
spec_s15_ownership	15.06.b Specify other	
s15_addcontact	Other Contacts	
s15_addcontact_grup	Other Contacts group	
s15_contactname	a. Name	
sec15_contactrelation	b. Relationship	1 Head 2 Spouse 3 Son/ daughter 4 Household relative e.g., uncle/aunt, niece, nephew, parent grandparent etc 5 Non household relative e.g., friend
s15_contactphone1	c1. Phone 1	
s15_contactphone1_confirm	c2. Re-enter Phone 1	
s15_contactphone2	d1. Phone 2	
s15_contactphone2_confirm	d2. Re-enter Phone 2	

s15_suppresent	15.08 Was the supervisor present?	1 Yes, from the begin of the interview to the end of the interview 2 Yes, for about 25% of the interview 3 Yes, for about 50% of the interview 4 Yes for more than 50 % of the interview but not in the entore interview time 5 No, supervisor not present
s15_supname	15.08b Select Supervisor's Name	100 PI_test 27584 Betty Chepkemoi 29610 Joel Lengees 30453 Aule Eeman Alex 33478 Alex Abdub Haro 36565 Lolokuru Benard Leramat 38845 Sylvester Kisike Koloi 90880 Abigael Mwanyiro 92373 Lokwang Francis Aule 92374 Kebe Jesiah Lochul 92492 Ekitela Esibitar Robert 92499 James Erot Eloto 92517 Vitalis Emmanuel Lekaite 92523 Lemadada Tom Lopisai
s15_coordinates	15.09 Take the gps coordinates of the house.	
s15_recordgps	15.10 Where did you record the GPS coordinates?	-222 Other, specify 0 I could not record the GPS coordinate 1 Household's house
spec_s15_recordgps	Specify other place from where the GPS coordinated were taken	
s15_landmark	15.11 Landmark near location (building name, school, market, church, shopping centre)	
s15_directions	15.12 Please enter the directions to the household (Specific directions that can get someone who is tracking until the exact location of the respondent)	
s15_interviewloc	15.13 Where did you interview the respondent?	-222 Other, specify 1 Household's house
spec_s15_interviewloc	Please specify the area where you conducted the survey.	
s15_interviewlang	15.15 In what language was the survey administered?	1 English 2 Swahili 3 Samburu 4 Turkana 5 Borana

		6 Gabra 7 Rendile
resp_available	Respondent available	
call_status	15.07. ENUMERATOR: What is the status of the interview?	0 Incomplete 1 Complete 2 Refusal 3 Respondent Not Present 4 Everyone Absent For An Extended Period Of Time 5 Postponed 6 Busy And Refused To Reschedule 7 Deceased 8 Dwelling Vacant Or Address Not A Dwelling 9 Dwelling Destroyed 10 Dwelling Not Found 11 Relocation 12 Incapacitated eg due to old age, mental disability
avail_reason	Reasons for refusal	-222 Other, specify 1 Rescheduled, respondent is busy 2 Refusal
appointment_date	When you want to reschedule	
refuse_reason	What reasons did the respondent give for refusing to participate	
spec_avail_reason	Specify the other reasons why the respondent is not available	
notfound_comment	Enumerator comment	
survey_completed	Is the survey complete	0 No 1 Yes
addthreshold	Would you still be interested in rescheduling this survey to another day and time? <i>HINT: Would you still be interested in rescheduling this survey to another day and time?</i>	0 No 1 Yes
reschedule_call	Rescheduling <i>HINT: Rescheduling</i>	
reschedule	<p><p>ENUMERATOR, read this out loud:

 When would you like to reschedule the survey?

 <p>ENUMERATOR INSTRUCTIONS:

 <p>When scheduling the callback, check the calendar to make sure you are available for that time. It may take up to five minutes before the event is published to the calendar.</p>	

