

CRC228-B01-Wave-II-Kenya

SURVEY IDENTIFICATION INFORMATION QUESTIONNAIRE DESCRIPTION

COVER

No sub-sections, No rosters, Questions: 14.

SECTION 0: HOUSEHOLD BASIC INFORMATION

Sub-sections: 1, No rosters, Questions: 21, Static texts: 6, Variables: 8.

SECTION 1: HOUSEHOLD DEMOGRAPHICS AND ROSTER

Sub-sections: 7, Rosters: 2, Questions: 64, Static texts: 10, Variables: 17.

SECTION 2: LAND TYPES, OWNERSHIP, AND ACCESS

Sub-sections: 2, Rosters: 1, Questions: 22, Static texts: 5, Variables: 2.

SECTION 3: CROPS AND PASTURE

Sub-sections: 2, Rosters: 1, Questions: 44, Static texts: 5, Variables: 3.

SECTION 4: LIVESTOCK OWNERSHIP AND PRODUCTION

Sub-sections: 3, Rosters: 1, Questions: 30, Static texts: 6, Variables: 3.

SECTION 5: SOCIAL CAPITAL

Sub-sections: 4, Rosters: 5, Questions: 37, Static texts: 6, Variables: 1.

SECTION 6-7: GENDERED TIME USE AND DECISION-MAKING

Sub-sections: 2, Rosters: 2, Questions: 30, Static texts: 6, Variables: 2.

SECTION 8: ECOLOGICAL SHOCKS

No sub-sections, Rosters: 2, Questions: 20, Static texts: 3, Variables: 2.

EXPERIMENT

Sub-sections: 3, Rosters: 5, Questions: 16, Static texts: 23.

SECTION 9: PERCEPTIONS ABOUT PROSOPIS INVASION

No sub-sections, Rosters: 1, Questions: 16, Static texts: 4, Variables: 2.

SECTION 10: COMMUNITY ASPIRATIONS

No sub-sections, Rosters: 1, Questions: 36, Static texts: 13, Variables: 3.

SECTION 11: INDIVIDUAL ASPIRATIONS

Sub-sections: 9, Rosters: 2, Questions: 78, Static texts: 23, Variables: 4.

SECTION 12: ASSETS

Sub-sections: 1, Rosters: 1, Questions: 8, Static texts: 4, Variables: 2.

SECTION 13-14: FOOD SECURITY AND DIET DIVERSITY

Sub-sections: 2, Rosters: 1, Questions: 12, Static texts: 4, Variables: 2.

SECTION 15: HOUSEHOLD SHOCKS AND COPING

No sub-sections, Rosters: 1, Questions: 7, Static texts: 3, Variables: 2.

SECTION 16: INSTITUTIONS, OTHER INCOME, FUTURE CONTACT

No sub-sections, Rosters: 2, Questions: 13, Static texts: 5, Variables: 2.

APPENDIX A — INSTRUCTIONS

APPENDIX B — CATEGORIES

APPENDIX C — VARIABLES

LEGEND

SURVEY IDENTIFICATION INFORMATION

QUESTIONNAIRE DESCRIPTION

Basic information

<i>Title</i>	CRC228-B01-Wave-II-Kenya
<i>Subtitle</i>	Combined Household Survey
<i>Version identifier</i>	Version 4.0 (May-2023)
<i>Version notes</i>	Post-pre-test

Survey data information

<i>Study type</i>	Household Survey
<i>Kind of data</i>	Sample survey data [ssd]
<i>Mode of Data Collection</i>	CAPI

Survey information

<i>Country</i>	Africa
<i>Year</i>	2023
<i>Languages</i>	English
<i>Unit of analysis</i>	Households
<i>Coverage</i>	Selected rural areas in Kenya, Tanzania, Zambia, Namibia, Botswana
<i>Universe</i>	Enumeration Area (EA)
<i>Primary Investigator</i>	Prof. Dr. Jan Börner; Prof. Dr. Thomas Heckeley; Prof. Dr. Peter Dannenberg
<i>Consultants</i>	Dr. Bisrat Gebrekidan
<i>Funding</i>	German Research Foundation under the CRC/Transregio 228: Future Rural Africa: Future-making and social-ecological transformation (Project number: 328966760)

Additional info

<i>Notes</i>	<p>**CRC CONTRIBUTORS: ** Prof. Dr. Javier Revilla Diez, Prof. Dr. Martin Qaim, Prof. Dr. Michael Bolling, Dr. Martin Parlasca, Dr. Hanna Ihli, Dr. Gideon Tups, Dr. Carolin Hulke, Dr. Linus Kalvelage, Eva Salve Bacud, Paula Alexiou, Vanessa Amatotsero, Vincent Moseti, Manuel Bollman, Mfundo Mililo, Chrispinus Mutsami, Jackson Elias, Jessie Amarachi Ezebuihe, Jonas Guthoff **LOCAL PARTNERS** Dr. Eric Kioko (University of Nairobi), Dr. Theobald Theodery (Mzumbe University), Dr. Mosses J. Nduguru (Mzumbe University), Dr. Enock Sankala (University of Zambia), Prof. Elias Kuntashula (University of Zambia), Prof. Ekkehard Klingelhoefter (UNAM-Katima) , Dr. Evans Simasiku (UNAM-Katima) , Mr</p>
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Salomo Mbai (NUST), Prof. Ayana Angassa Abdeta (BUAN), Dr. Melusi Rampart (BUAN)

Keywords Shocks, aspirations, social networks, food security, gender, time use, labour

COVER

Country	TEXT ctry <div></div>
Ward	TEXT ward <div></div>
Location	TEXT loc <div></div>
Village name <div>I If the village name is empty please ask the respondent what the village is called. Otherwise put "-888"</div>	TEXT village <div></div>
Name of the household head during Wave1	TEXT head_wave1 <div></div>
Gender of HH head	TEXT gender_hh_wave1 <div></div>
Age of the HH head in 2019	NUMERIC: INTEGER age_hh_wave1 <div></div>
Marital status of the HH head in 2019	TEXT marstat_hh_wave1 <div></div>
Ethnicity of HH head	TEXT eth_hh_wave1 <div></div>
Respondent's relation to HH head	TEXT reln_hh_wave1 <div></div>
Household size in 2019	NUMERIC: INTEGER hh_size_wave1 <div></div>
GPS from Wave 1	GPS gps_wave1 <div></div> <div>N</div> <div></div> <div>W</div> <div></div> <div>A</div> <div></div>
Household ID	TEXT hhid <div></div>

Group of the household in the experiment

TEXT

experiment_group

.....

SECTION 0: HOUSEHOLD BASIC INFORMATION

section_0

[S0] START TIME	DATE: CURRENT TIME s0_start_time
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STATIC TEXT

E !IsAnswered(s0_start_time)

PLEASE RECORD THE START TIME BEFORE YOU START THE SECTION

VARIABLE 1	LONG country
VARIABLE country==1? "Kenyatta University" : country==2? "Mzumbe University": country==3 ? "University of Zambia": countr y==4? "University of Namibia" : country==5? "he Botswana University of Agriculture and N And 28 other symbols [1]	STRING part_inst
VARIABLE country==1 ? "KSH" : ""	STRING currency
Name of interviewer	SINGLE-SELECT inter 01 <input type="radio"/> Allan Kiplimo Kiptum 02 <input type="radio"/> Faith J Kibet 03 <input type="radio"/> Gideon Kipyegon Cheptarus 04 <input type="radio"/> Haron Lepasio 05 <input type="radio"/> Jessica Nakwechuh 06 <input type="radio"/> Koskei Josephat Kipkorir 07 <input type="radio"/> Sylvia Jebet 08 <input type="radio"/> Julius Ngilip 09 <input type="radio"/> Beatrice Lekiremu 10 <input type="radio"/> Judy Kobetbet 11 <input type="radio"/> Kenneth Lekidogo 12 <input type="radio"/> Naomi Sherry Lempaine
Did you make contact with the respondent?	SINGLE-SELECT res_ident 01 <input type="radio"/> Yes 00 <input type="radio"/> No

<p>What did the neighbor or the village guide inform you about the respondent?</p> <p>E res_ident==0</p>	<p>SINGLE-SELECT reason_not_interviewed</p> <p>01 <input type="radio"/> Refused</p> <p>02 <input type="radio"/> No competent respondent at time of the visit</p> <p>03 <input type="radio"/> None at home for extended amount of time</p> <p>04 <input type="radio"/> Household moved to another village/town/district</p> <p>05 <input type="radio"/> Household moved to a neighboring country</p> <p>06 <input type="radio"/> Household moved to unknown location</p> <p>07 <input type="radio"/> Household not found</p> <p>08 <input type="radio"/> Dwelling destroyed</p> <p>96 <input type="radio"/> Other (Specify)</p>
<p>Other ➡ Specify:</p> <p>E reason_not_interviewed==96</p>	<p>TEXT reason_not_interviewed_other</p> <p>.....</p>

STATIC TEXT

E res_ident==0

PLEASE CONTACT THE SUPERVISOR AND DONT PROCEED TO THE NEXT SECTION

<p>VARIABLE</p> <p>hhid + 'R'</p>	<p>STRING replacement_id</p>
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SECTION 0: HOUSEHOLD BASIC INFORMATION

HOUSEHOLD IDENTIFICATION

E res_ident==1 || res_ident==0

<p>VARIABLE</p> <p>18</p>	<p>LONG MINIMAL_AGE</p>
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STATIC TEXT

INTERVIEWER:

If you found the household and someone is answering the door, introduce yourself and try to find a competent respondent. A competent respondent must be %MINIMAL_AGE% year of age or older and must have knowledge of the household and its activities.

To confirm consent to begin the interview, read the following text:

STATIC TEXT

Good morning/afternoon, My name is %inter%, and I am part of the Future Rural Africa research project, conducted by the University of Bonn, University of Köln, and %part_inst%. We are conducting a research study to understand how rural households have adapted to changes in the social, economic, and ecological landscape due to changes in land use patterns, intensification of agriculture, infrastructure, and conservation programs. We have selected your household as part of a larger sample group of several hundred households, randomly chosen to participate in our research study in 2019. We would like to invite you to participate in the study, and we will ask you a series of questions that will help us in our research process. The interview will take approximately two hour, and we will arrange a location and time that is convenient for you. In addition, we would like to request your consent to collect the GPS points of the dwelling you reside in. The data collected will be used for research purposes and will be kept confidential. Before you decide whether you would like to participate, we would like to explain some guidelines and your rights as a participant:

Guidelines:

I We will only begin the discussion with you when you have given your full consent to participate. I During the interview, we will ask you some questions about your household, including your education and occupation, income and expenditure, assets and shocks, farming and livestock, and aspirations. All answers are of great value, and there are no right or wrong answers. Throughout the entire data collection, processing, and analysis phases, the information you provide us will be kept confidential and anonymous. Any individual identifying information (such as names of people) will be removed from the data. I The data will be used only for research purposes, and will not be used to promote any program, whether by government or other organizations. I There are no risks or dangers from participating, but you may find some questions a bit sensitive (for instance, questions about your income and expenditure). I During the interview, you have the absolute freedom not to respond to a question. I You are free to withdraw from the interview at any time, although we hope you will stay with us until the end.

Your Rights:

I You have the right to understand the research and what it will involve. I You have the right to ask questions, and we will provide you with answers. I You have the right to decide whether or not to participate. I You have the right to change your mind and withdraw from the study at any time.

If you have any questions or concerns, please do not hesitate to contact Mr. Jonas Guthoff (+260975171973) or Dr. Enock Sankala (+260 96 8664320). If you have decided to participate, please confirm the following questions and sign (confirm verbally).



I hereby confirm that I have adequately received information about the study and I understand the objective of the research done under the project "Future Rural Africa"	SINGLE-SELECT 01 <input type="radio"/> Yes 00 <input type="radio"/> No	consent_1
I had ample time and opportunity to ask questions and obtain satisfactory answers from the research assistant in charge	SINGLE-SELECT 01 <input type="radio"/> Yes 00 <input type="radio"/> No	consent_2
I agree to answer your questions and I understand that all my personal data will be treated confidentially.	SINGLE-SELECT 01 <input type="radio"/> Yes 00 <input type="radio"/> No	consent_3
I consent to the collection of the GPS points of my dwelling for research purposes.	SINGLE-SELECT 01 <input type="radio"/> Yes 00 <input type="radio"/> No	consent_4
VARIABLE consent_1==1 & consent_2==1 & consent_3==1 & consent_4==1	BOOLEAN	interviewed_consent
Name of the respondent E interviewed_consent==true V1 self.Split(' ').Length>1 M1 Please write name and surname	TEXT 	respondent

Sex of the respondent	<div>SINGLE-SELECT</div> <div>gender_resp</div> <div> 01 <input type="radio"/> Men 00 <input type="radio"/> Women 96 <input type="radio"/> Others </div>
Age of the respondent V1 age_resp>=18 M1 The respondent must be at least 18 years old!	<div>NUMERIC: INTEGER</div> <div>age_resp</div> <div>-----</div>
Is he/she the respondent during Wave 1?	<div>SINGLE-SELECT</div> <div>res_wave1</div> <div> 01 <input type="radio"/> Yes 00 <input type="radio"/> No </div>
What is the relationship of the respondent (%r espondent%) to the head of household? E interviewed_consent==true	<div>SINGLE-SELECT</div> <div>res_rel</div> <div> 01 <input type="radio"/> Self/HH head 02 <input type="radio"/> Spouse 03 <input type="radio"/> Son 04 <input type="radio"/> Daughter 05 <input type="radio"/> Brother 06 <input type="radio"/> Sister 07 <input type="radio"/> Father 08 <input type="radio"/> Mother 09 <input type="radio"/> Grandson 10 <input type="radio"/> Granddaughter 11 <input type="radio"/> Son-in-law 12 <input type="radio"/> Daughter-in-law 13 <input type="radio"/> Brother-in-law 14 <input type="radio"/> Sister-in-law 15 <input type="radio"/> Grandfather 16 <input type="radio"/> Grandmother And 6 other symbols [86] </div>
If not the HH head, what is the name of the ho usehold head? E interviewed_consent==true && res_rel>1	<div>TEXT</div> <div>res_head</div> <div>-----</div>
Is the HH head the same in wave 1 2019?	<div>SINGLE-SELECT</div> <div>head_wave1same_ind</div> <div> 01 <input type="radio"/> Yes 00 <input type="radio"/> No </div>
What is the phone number of the respondent (% respondent%)	<div>TEXT</div> <div>res_phone</div> <div>-----</div>
Is it possible to start the interview? E interviewed_consent==true	<div>SINGLE-SELECT</div> <div>interview_possible</div> <div> 01 <input type="radio"/> Yes 00 <input type="radio"/> No </div>

<div>GPS coordinates of the dwelling (to be collected outside the dwelling)</div> <div>E interview_possible==1</div> <div>W1 self.Accuracy<50</div> <div>M1 Accuracy too low, try again</div>	<div>GPS<div>gps_coordinates</div></div> <div>N</div> <div>W</div> <div>A</div>
<div>Please confirm the experiment group of the household</div>	<div>SINGLE-SELECT<div>experiment_group_ind</div></div> <div>01<div><div></div>Treatment 1 (Only HH head watches video and plays game)</div></div> <div>02<div><div></div>Treatment 2 (Both HH head and spouse watch video and play game)</div></div> <div>03<div><div></div>Control group (No video, Only HH head plays game)</div></div>
<div>VARIABLE<div>(experiment_group_ind==1 && experiment_group!="T1") (experiment_group_ind==2 && experiment_group!="T2") (experiment_group_ind==3 && experiment_group!="Control")</div></div>	<div>BOOLEAN<div>t_check</div></div>
<div>STATIC TEXT</div> <div>E (experiment_group_ind==1 && experiment_group!="T1") (experiment_group_ind==2 && experiment_group!="T2") (experiment_group_ind==3 && experiment_group!="Control")</div> <div>V1 t_check != true</div> <div>M1 The assigned experiment group identifier MUST be equal the experiment group you are typing. Please check at the cover page the experiment group of the HH.</div> <div>ERROR!</div>	
<div>[S0] END TIME</div>	<div>DATE: CURRENT TIME<div>s0_end_time</div></div> <div></div>
<div>STATIC TEXT</div> <div>E !IsAnswered(s0_end_time)</div> <div>PLEASE RECORD THE END TIME BEFORE YOU START THE NEXT SECTION</div>	
<div>VARIABLE<div>Math.Round((s0_end_time - s0_start_time).value.TotalSeconds / 60,2)</div></div>	<div>DOUBLE<div>s0_duration</div></div>

SECTION 1: HOUSEHOLD DEMOGRAPHICS AND ROSTER

section_1

VARIABLE true	BOOLEAN DEBUG_MODE
[S1] START TIME	DATE: CURRENT TIME s1_start_time

STATIC TEXT

E !IsAnswered(s1_start_time)

PLEASE RECORD THE START TIME BEFORE YOU START THE SECTION

VARIABLE s1_start_time.Value.Year	LONG Interview_year
VARIABLE s1_start_time.Value.Month	LONG interview_month
VARIABLE country==1 ? "March - November" : country==2 ? "November - May":country==3? "November - April":country==4? "November - April": "November - April"	STRING rainy_month
VARIABLE country==1 ? 9 : country==2 ? 7:6	LONG rainy_month_count
VARIABLE country==1 ? "December - February" : country==2 ? "June - October":country==3? "May - October":country==4? "May - October": "May - October"	STRING dry_month
VARIABLE country==1 ? 3 : country==2 ? 5:6	LONG dry_month_count

STATIC TEXT

FOR A COMPLETE LIST OF INDIVIDUALS CONNECTED TO THE HOUSEHOLD, USE THE FOLLOWING PROBE QUESTIONS:

First, give me the names of all the members of your immediate family who normally live and eat their meals together here starting with the head of the household.

LIST THE HOUSEHOLD HEAD ON LINE 1.

Next, give me the names of any other persons related to you or other household members who normally live and eat their meals together here.

Are there any other people not here now who normally live and eat their meals here? For example, household members studying elsewhere or traveling?

Next, give me the names of any other persons not related to you or other household members, but who normally live and eat their meals together here, such as servants, lodgers, or others who are not relatives.

DO NOT LIST SERVANTS WHO HAVE A HOUSEHOLD ELSEWHERE, AND GUESTS WHO ARE VISITING TEMPORARILY AND HAVE A HOUSEHOLD ELSEWHERE.

<p>MAKE A COMPLETE LIST OF ALL INDIVIDUALS WHO NORMALLY LIVE AND EAT THEIR MEALS TOGETHER IN THIS HOUSEHOLD (AT LEAST 3 MONTHS IN THE LAST 12 MONTHS), STARTING WITH THE HEAD OF HOUSEHOLD.</p> <p>I CONFIRM THAT HOUSEHOLD HEAD HERE IS THE SAME AS HOUSEHOLD HEAD LISTED ON COVER PLEASE RECORDE ALL THE NAMES AS: FIRST NAME, SURNAME</p> <p>V1 self.All(x=>x.Item2.Split(' ').Length>1)</p> <p>M1 Please write name and surname</p>	<p>LIST</p> <p>numfamily</p> <p>.....</p>
<p>VARIABLE</p> <p>numfamily.Length</p>	<p>LONG</p> <p>hh_size</p>

SECTION 1: HOUSEHOLD DEMOGRAPHICS AND ROSTER

Roster: MEMEBER - %ROSTERTITLE%

generated by list question numfamily

r_members

<p>VARIABLE</p> <p>r_members.Count(x=>ha_rel==1)</p>	<p>LONG</p> <p>hhh_count</p>
<p>VARIABLE</p> <p>numfamily[@rowcode-1].Item1</p>	<p>LONG</p> <p>s1_member_code</p>
<p>VARIABLE</p> <p>numfamily[@rowcode-1].Item2</p>	<p>STRING</p> <p>s1_member_name</p>

STATIC TEXT

Now you are asking question about - %s1_member_name%

SECTION 1: HOUSEHOLD DEMOGRAPHICS AND ROSTER / MEMEBER - %ROSTERTITLE%

BASIC DEMOGRAPHICS

<p>During the past 12 months, how many months did %s1_member_name% live here?</p> <p>V1 self.InRange(0,12)</p> <p>M1 Number of months must be between 0 and 12</p>	<p>NUMERIC: INTEGER</p> <p>live_here</p> <p>-----</p>
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If %s1_member_name% has not stayed for 12 months, what is the MAIN reason for absence?

E live_here < 12

SINGLE-SELECTabsence_res

01

New arrivals - New born

02

New arrivals - Returned home from abduction/displacement

03

New arrivals - To escape insecurity from home area

04

New arrivals - Bad living conditions at home

05

New arrivals - To look for work

06

New arrivals - Other economic reasons

07

New arrivals - Education

08

New arrivals - Marriage

09

New arrivals - Divorce

10

Members that left - Deceased

11

Members that left - To escape insecurity from this area

12

Members that left - Looking for work elsewhere

13

Members that left - Other economic reasons

14

Members that left - Illness

15

Members that left - Education

16

Members that left - Marriage

And 4 other symbols [94]

Specify the MAIN reason for absence

E absence_res==96

TEXTabsence_res_oth

.....

What is the sex of %s1_member_name%?

SINGLE-SELECTha03

01

Male

00

Female

How old is %s1_member_name%?

NUMERIC: INTEGERage

I PLEASE RECORD IN COMPLETE YEAR

W1 age.InRange(0,110)

M1 Age out of range, if not please leave a comment

<p>What is %s1_member_name%'s relationship to the head of household?</p> <p>V1 r_members.Count(x=>x.ha_re1==1)<=1</p> <p>M1 Only one person is allowed to be head of household, please verify.</p>	<div><div>SINGLE-SELECT</div><div>ha_re1</div><div><div>01</div><div><input type="radio"/> SELF/HEAD</div></div><div><div>02</div><div><input type="radio"/> WIFE/HUSBAND</div></div><div><div>03</div><div><input type="radio"/> CHILD/ADOPTED CHILD</div></div><div><div>04</div><div><input type="radio"/> GRANDCHILD</div></div><div><div>05</div><div><input type="radio"/> NIECE/NEPHEW</div></div><div><div>06</div><div><input type="radio"/> MOTHER/FATHER</div></div><div><div>07</div><div><input type="radio"/> SISTER/BROTHER</div></div><div><div>08</div><div><input type="radio"/> SON/DAUGHTER-IN-LAW</div></div><div><div>09</div><div><input type="radio"/> BROTHER/SISTER-IN-LAW</div></div><div><div>10</div><div><input type="radio"/> GRANDFATHER/MOTHER</div></div><div><div>11</div><div><input type="radio"/> FATHER/MOTHER-IN-LAW</div></div><div><div>12</div><div><input type="radio"/> OTHER RELATIVE</div></div><div><div>13</div><div><input type="radio"/> SERVANT OR SERVANT'S RELATIVE</div></div><div><div>14</div><div><input type="radio"/> LODGER/LODGER'S RELATIVE</div></div><div><div>15</div><div><input type="radio"/> OTHER NON-RELATIVE</div></div></div>
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<p>What is %s1_member_name%'s religion?</p> <p>E age>=\$working_age</p>	<p>SINGLE-SELECT religio</p> <p>01 <input type="radio"/> Catholic</p> <p>02 <input type="radio"/> Protestant demoninantions (incl all non-catholic denomi nations)</p> <p>03 <input type="radio"/> Muslim</p> <p>04 <input type="radio"/> African Inland Church (AIC)</p> <p>10 <input type="radio"/> African Traditional religion</p> <p>11 <input type="radio"/> Non-religious</p> <p>96 <input type="radio"/> Other ➡ Please specify</p> <p>-88 <input type="radio"/> Does not know</p> <p>-99 <input type="radio"/> Refuse to answer</p>
<p>%s1_member_name%'s Religion, if response is "Other"</p> <p>E religio==96</p>	<p>TEXT religio_1</p> <p>-----</p>
<p>Educational attainment of %s1_member_name %</p> <p>E age>=3</p>	<p>SINGLE-SELECT educ1</p> <p>00 <input type="radio"/> No formal education</p> <p>01 <input type="radio"/> Nursery/ Kindergarten/ECD</p> <p>02 <input type="radio"/> Primary 1</p> <p>03 <input type="radio"/> Primary 2</p> <p>04 <input type="radio"/> Primary 3</p> <p>05 <input type="radio"/> Primary 4</p> <p>06 <input type="radio"/> Primary 5</p> <p>07 <input type="radio"/> Primary 6</p> <p>08 <input type="radio"/> Primary 7</p> <p>09 <input type="radio"/> Primary 8</p> <p>10 <input type="radio"/> Secondary school Year 1</p> <p>11 <input type="radio"/> Secondary school Year 2</p> <p>12 <input type="radio"/> Secondary school Year 3</p> <p>13 <input type="radio"/> Secondary school Year 4</p> <p>14 <input type="radio"/> University 1</p> <p>15 <input type="radio"/> University 2</p> <p>And 4 other symbols [73]</p>
<p>Is %s1_member_name% currently attending sc hool?</p> <p>E educ1>0 && !(educ1==18 educ1==96)</p>	<p>SINGLE-SELECT educ2</p> <p>01 <input type="radio"/> Yes</p> <p>00 <input type="radio"/> No</p>
<p>How much money has the household spent on %s1_member_name% schooling during the pas t 12 months?</p> <p>E educ2==1</p> <p>W1 educ3>=0</p> <p>M1 Answer should be MORE THAN 0!</p>	<p>NUMERIC: DECIMAL educ3</p> <p>-----</p>

<p>In the last 12 months, has %s1_member_name% undertaken any work on own farm or outside?</p> <p>I Primary occupation is determined by the amount of time spent on any activity. If a member has two occupations, firstly maize farming where most of the time is spent and secondly livestock raising where</p> <p>And 191 other symbols [1]</p> <p>E age>= \$working_age</p>	<p>SINGLE-SELECT emp_member</p> <p>01 <input type="radio"/> Yes</p> <p>00 <input type="radio"/> No</p>
<p>Is %s1_member_name% employed or involved in any work on OWN FARM, including farming and livestock?</p> <p>E age>=\$working_age && emp_member==1</p>	<p>SINGLE-SELECT emp_ownfarm</p> <p>01 <input type="radio"/> Yes</p> <p>00 <input type="radio"/> No</p>
<p>Is %s1_member_name% employed in any job or income-generating activities NOT in own farm but in off-farm (other's farm), own business, or non-farm labour?</p> <p>E age>= \$working_age && emp_member==1</p>	<p>SINGLE-SELECT emp_offfarm</p> <p>01 <input type="radio"/> Yes</p> <p>00 <input type="radio"/> No</p>
<p>VARIABLE</p> <p>emp_member==1 & (emp_ownfarm==0 & emp_offfarm==0)</p>	<p>BOOLEAN emp_check</p>

STATIC TEXT

E emp_member==1 && (emp_ownfarm==0 && emp_offfarm==0)

V1 emp_check != true

M1 If the member is engaged in any income generating activities, either it should be employed in any job away from home (off-farm or non-farm income) or he is engaged in on farm work

ERROR!

SECTION 1: HOUSEHOLD DEMOGRAPHICS AND ROSTER / MEMBER - %ROSTERTITLE%

ON-FARM EMPLOYMENT

E emp_ownfarm==1

STATIC TEXT

Now, we would like to talk about the participation of members of this household in on-farm or OWN farm activities including cash and food crop farming, pasture farming, and livestock keeping.

<p>How many months did %s1_member_name% work on cash crops or pasture/fodder for selling during the rainy season (%rainy_month%) in the last 12 months?</p> <p>W1 self.InRange(0,rainy_month_count)</p> <p>M1 Number of months can not be more than %rainy_month_count%</p>	<p>NUMERIC: INTEGER Ibr13_1</p> <p>-----</p>
<p>How many months did %s1_member_name% work on cash crops or pasture/fodder for selling during the dry season (%dry_month%) in the last 12 months?</p> <p>W1 self.InRange(0,dry_month_count)</p> <p>M1 Please confirm!! Number of month during the dry season can not be more than %dry_month_count%</p>	<p>NUMERIC: INTEGER Ibr13_2</p> <p>-----</p>
<p>In a typical week, how many days did %s1_member_name% work on cash crops?</p> <p>E Ibr13_1>0 Ibr13_2>0</p> <p>W1 self.InRange(1,7)</p> <p>M1 Number of days SHOULD be in between 1 to 7 days in a week!</p>	<p>NUMERIC: INTEGER Ibr13_3</p> <p>-----</p>

<p>In a typical day, how many hours did %s1_member_name% work on cash crops?</p> <p>E Ibr13_3>0</p> <p>W1 self.InRange(1,24)</p> <p>M1 Number of hours CANNOT be 0 and more than 24! Please confirm</p>	<p>NUMERIC: DECIMAL Ibr13_4</p> <p>-----</p>
<p>How many months did %s1_member_name% work on food crops during the rainy season (%rainy_month%) in the last 12 months?</p> <p>W1 self.InRange(0,rainy_month_count)</p> <p>M1 Please confirm. Number of Months must be between 0 and %rainy_month_count%</p>	<p>NUMERIC: INTEGER Ibr13_5</p> <p>-----</p>
<p>How many months did %s1_member_name% work on food crops during the dry season (%dry_month%) in the last 12 months?</p> <p>W1 self.InRange(0,dry_month_count)</p> <p>M1 Please Confirm! Number of months must be between 0 and %dry_month_count%</p>	<p>NUMERIC: INTEGER Ibr13_6</p> <p>-----</p>
<p>In a typical week, how many days did %s1_member_name% work on food crops?</p> <p>E Ibr13_5>0 Ibr13_6>0</p> <p>W1 self.InRange(1,7)</p> <p>M1 Number of days MUST be between 1 to 7 days in a week! Please confirm.</p>	<p>NUMERIC: INTEGER Ibr13_8</p> <p>-----</p>
<p>In a typical day, how many hours did %s1_member_name% work on food crops?</p> <p>E Ibr13_8>0</p> <p>W1 self.InRange(1,24)</p> <p>M1 Number of hours CANNOT be 0 and more than 24! Please confirm.</p>	<p>NUMERIC: DECIMAL Ibr13_9</p> <p>-----</p>
<p>How many years of experience does %s1_member_name% have in cash or food crop cultivation? Please approximate in whole number of years (e.g. 8 months approx. 1 year)</p> <p>V1 self.InRange(0,(age-10))</p>	<p>NUMERIC: INTEGER years_exp_crp</p> <p>-----</p>
<p>How many months did %s1_member_name% work in livestock keeping activities during the rainy season (%rainy_month%) in the last 12 months?</p> <p>W1 self.InRange(0,rainy_month_count)</p> <p>M1 Please confirm the number of months.</p>	<p>NUMERIC: INTEGER Ibr13_10</p> <p>-----</p>
<p>How many months did %s1_member_name% work in livestock keeping activities during the dry season (%dry_month%) in the last 12 months?</p> <p>W1 self.InRange(0,dry_month_count)</p> <p>M1 Please confirm the number of months</p>	<p>NUMERIC: INTEGER Ibr13_11</p> <p>-----</p>
<p>In a typical week, how many days did %s1_member_name% work in livestock keeping activities?</p> <p>E Ibr13_10>0 Ibr13_11>0</p> <p>V1 self.InRange(1,7)</p> <p>M1 Number of days MUST be between 1 to 7 days in a week! Please confirm.</p>	<p>NUMERIC: INTEGER Ibr13_12</p> <p>-----</p>

<div>In a typical day, how many hours did %s1_member_name% work in livestock keeping activities ?</div> <div>E Ibr13_12>0</div> <div>W1 self.InRange(1,24)</div> <div>M1 Number of hours CANNOT be 0 and more than 24! Please confirm.</div>	<div>NUMERIC: DECIMALIbr13_13</div> <div></div>
<div>How many years of experience does %s1_member_name% have in livestock keeping? Please a pproximate in whole number of years (e.g. 8 months approx. 1 year)</div> <div>V1 self.InRange(0,(age-10))</div>	<div>NUMERIC: INTEGERyears_exp_liv</div> <div></div>
<div>VARIABLE</div> <div>emp_ownfarm==1 & (Ibr13_1 + Ibr13_2 + Ibr13_5 + Ibr13_6 + Ibr13_10 + Ibr13_11)==0</div>	<div>BOOLEANonfarm_emp_check</div> <div></div>
<div>STATIC TEXT</div> <div>E emp_ownfarm==1 & (Ibr13_1 + Ibr13_2 + Ibr13_5 + Ibr13_6 + Ibr13_10 + Ibr13_11)==0</div> <div>V1 onfarm_emp_check != true</div> <div>M1 If the member is engaged in any OWN farm income generating activities, his/her participation in at least one of on-farm activities (i.e. cash cropping, food cropping, livestock keeping, and pasture farming) MUST be >0! Please check.</div> <div>ERROR!</div>	
<div>What is the MAIN use of the money received fr om on farm activity by %s1_member_name%?</div>	<div>MULTI-SELECT: ORDEREDonfarm_main_use</div> <div>01 <input type="checkbox"/> Investment in own business</div> <div>02 <input type="checkbox"/> Food</div> <div>03 <input type="checkbox"/> Education</div> <div>04 <input type="checkbox"/> Health</div> <div>05 <input type="checkbox"/> Housing and furniture</div> <div>06 <input type="checkbox"/> Transportation</div> <div>07 <input type="checkbox"/> Entertainment</div> <div>96 <input type="checkbox"/> Others, specify</div> <div>08 <input type="checkbox"/> Member not receiving income, just helping or assistance</div>
<div>Specify Other use by %s1_member_name%?</div> <div>E onfarm_main_use.Contains(96)</div>	<div>TEXTonfarm_main_use_oth</div> <div></div>

SECTION 1: HOUSEHOLD DEMOGRAPHICS AND ROSTER / MEMEBER - %ROSTERTITLE%

OFF-FARM EMPLOYMENT

E emp_offfarm==1

What are the types of off-farm job or jobs AWAY from own farm is %s1_member_name% engaged in the last 12 months?

MULTI-SELECT1br3_1

01

☐ Large-scale crop cultivation

02

☐ Small-scale crop cultivation

03

☐ Livestock keeping

04

☐ Pasture farming

05

☐ Food industry (e.g. restaurants waiter, cashier)

06

☐ Health (nurse, doctor, etc.)

07

☐ Education (teacher, etc.)

08

☐ Government officers/employees

09

☐ Other public sector, specify

10

☐ Agricultural retail trade/enterprise

11

☐ Non-farm wholesale or retail trade/enterprise

12

☐ Factory worker/manufacturing jobs

13

☐ Construction labour

14

☐ Transport (driver)

15

☐ Travel/tourism

16

☐ Hospitality (e.g. accommodation, lodging, motels, hotels)

And 5 other symbols [93]

Please specify other type of off-farm job %s1_member_name% engaged in.

E 1br3_1.ContainsAny(9,21)

TEXT1br3_1_oth

SECTION 1: HOUSEHOLD DEMOGRAPHICS AND ROSTER / MEMEBER - %ROSTERTITLE% / OFF-FARM EMPLOYMENT
Roster: BUSINESS INCOME - %ROSTERTITLE%
generated by multi-select question 1br3_1

bus_member

What is the type of employment?

SINGLE-SELECTemp_form

01

☐ Self-employed/ Own busine

SS

02

☐ Employee

What is the member's years of experience in these jobs? Please approximate in whole number of years (e.g. 8 months approx. 1 year).

NUMERIC: INTEGERemp_off_exp

V1 self.InRange(1,(age-10))

M1 Years of experience MUST be at least 1 year! It was previously reported that the member has been involved in livestock activities.

SECTION 1: HOUSEHOLD DEMOGRAPHICS AND ROSTER / MEMEBER - %ROSTERTITLE% / OFF-FARM EMPLOYMENT / BUSINESS INCOME - %ROSTERTITLE%
OWN BUSINESS

E emp_form==1

<p>What is the total number of months %s1_member_name% worked in business during the dry season (%dry_month%) in the last 12 months?</p> <p>V1 self.InRange(0,dry_month_count)</p> <p>M1 The number of month can not be more than %dry_month_count%</p>	<p>NUMERIC: INTEGER bus_dry</p> <p>-----</p>
<p>What is the total number of months %s1_member_name% worked in this business during the rainy season (%rainy_month%) in the last 12 month?</p> <p>V1 self.InRange(0,rainy_month_count)</p> <p>M1 Number of month must be between 0 and %rainy_month_count%</p>	<p>NUMERIC: INTEGER bus_rain</p> <p>-----</p>
<p>VARIABLE</p> <p>emp_form==1 & (bus_dry + bus_rain)==0</p>	<p>BOOLEAN bus_check</p>
<p>STATIC TEXT</p> <p>E emp_ownfarm==1 & (bus_dry + bus_rain)==0</p> <p>V1 bus_check != true</p> <p>M1 If the member is engaged in any OWN business activities, his/her participation in either dry or rainy season MUST be >0! Please check.</p> <p>ERROR!</p>	
<p>In a typical week, how many days does %s1_member_name% work in this job?</p> <p>E bus_dry>0 bus_rain>0</p> <p>V1 self.InRange(1,7)</p> <p>M1 Number of days MUST be between 1 to 7 days in a week! Please confirm the number of days.</p>	<p>NUMERIC: INTEGER bus_days_wk</p> <p>-----</p>
<p>What is the total number of hours in a typical day %s1_member_name% worked in this business?</p> <p>E bus_days_wk>0</p> <p>W1 self.InRange(1,24)</p> <p>M1 Number of hours CANNOT be 0 and more than 24! Please confirm.</p>	<p>NUMERIC: INTEGER bus_hrs</p> <p>-----</p>
<p>What is the approximate total income (in %currency%) from the business operated by %s1_member_name% in the last 30 days?</p>	<p>NUMERIC: DECIMAL bus_sales</p> <p>-----</p>
<p>What is the MAIN use of the money received from this source?</p> <p>E bus_sales>0</p>	<p>MULTI-SELECT: ORDERED bus_main_use</p> <p>001 <input type="checkbox"/> Investment in own business</p> <p>002 <input type="checkbox"/> Food</p> <p>003 <input type="checkbox"/> Education</p> <p>004 <input type="checkbox"/> Health</p> <p>005 <input type="checkbox"/> Housing and furniture</p> <p>006 <input type="checkbox"/> Transportation</p> <p>007 <input type="checkbox"/> Entertainment</p> <p>096 <input type="checkbox"/> Others, specify</p> <p>-888 <input type="checkbox"/> I don't know</p> <p>008 <input type="checkbox"/> Member not receiving income, just helping or assistance</p>

Specify other income use	TEXT bus_main_use_others
E bus_main_use.Contains(96)
What is the approximate amount of money (capital, hired labour, other costs) spent on the business in the last 12 months?	NUMERIC: DECIMAL business_expense

SECTION 1: HOUSEHOLD DEMOGRAPHICS AND ROSTER / MEMEBER - %ROSTERTITLE% / OFF-FARM EMPLOYMENT / BUSINESS INCOME - %ROSTERTITLE%

EMPLOYED

E emp_form==2

Where is %s1_member_name%'s workplace located?	SINGLE-SELECT 1br3_3
	01 <input type="radio"/> In this village 02 <input type="radio"/> In other rural area within or outside this district 03 <input type="radio"/> Town or city within this district/region 04 <input type="radio"/> Town or city in another district/region 05 <input type="radio"/> Outside the country
Is %s1_member_name%'s off-farm job permanent or seasonal?	SINGLE-SELECT 1br3_4
	01 <input type="radio"/> Permanent 02 <input type="radio"/> Seasonal

SECTION 1: HOUSEHOLD DEMOGRAPHICS AND ROSTER / MEMEBER - %ROSTERTITLE% / OFF-FARM EMPLOYMENT / BUSINESS INCOME - %ROSTERTITLE% / EMPLOYED

PERMANENT OR LONGER TERM

E 1br3_4==1

If permanent or longer term, what is %s1_member_name%'s wage rate per month (monthly income)?	NUMERIC: INTEGER 1br3_5

W1 self > 0	
M1 Please check again if the wage rate is zero	

What is the MAIN use of the money received from this source by %s1_member_name%?

E 1br3_5>0

MULTI-SELECT: ORDERED1br3_5_1

001

☐ Investment in own business

002

☐ Food

003

☐ Education

004

☐ Health

005

☐ Housing and furniture

006

☐ Transportation

007

☐ Entertainment

096

☐ Others, specify

-888

☐ I don't know

-999

☐ Refused to answer

008

☐ Member not receiving income, just helping or assistance

Specify other income use by %s1_member_name%?

E 1br3_5_1.Contains(96)

TEXT1br3_5_1_oth

If permanent or longer term, how many days in a typical week did %s1_member_name% work in this job activity?

V1 self.InRange(1,7)
M1 Number of days MUST be between 1 to 7 days in a week! Please confirm the number of days.

NUMERIC: INTEGER1br3_6

If permanent or longer term, how many hours in a typical day did %s1_member_name% work in this job?

V1 self.InRange(1,24)
M1 Number of hours CANNOT be 0 and more than 24! Please confirm.

NUMERIC: INTEGER1br3_7

SECTION 1: HOUSEHOLD DEMOGRAPHICS AND ROSTER / MEMEBER - %ROSTERTITLE% / OFF-FARM EMPLOYMENT / BUSINESS INCOME - %ROSTERTITLE% / EMPLOYED
SEASONAL OR CASUAL

E 1br3_4==2

If seasonal/casual, how was %s1_member_name% paid?

I Lumpsum is a single payment made at a particular time, as opposed to a number of smaller payments or instalments.

SINGLE-SELECT1br3_8

01

☐ Per hour

02

☐ Per day

03

☐ Per week

04

☐ Per fortnight

05

☐ Per month

06

☐ Per quarter

07

☐ Per half year

08

☐ Per year

09

☐ Lumpsum

If seasonal or casual, what is the amount of money paid to %s1_member_name% after each interval?		NUMERIC: INTEGER	1br3_9
W1 self >=0			
M1 Amount of money paid can not be negative			
What is the MAIN use of the money received from this source by %s1_member_name%?		MULTI-SELECT: ORDERED	1br3_9_1
E 1br3_9>0		001 <input type="checkbox"/> Investment in own business	
		002 <input type="checkbox"/> Food	
		003 <input type="checkbox"/> Education	
		004 <input type="checkbox"/> Health	
		005 <input type="checkbox"/> Housing and furniture	
		006 <input type="checkbox"/> Transportation	
		007 <input type="checkbox"/> Entertainment	
		096 <input type="checkbox"/> Others, specify	
		-888 <input type="checkbox"/> I don't know	
		-999 <input type="checkbox"/> Refused to answer	
		008 <input type="checkbox"/> Member not receiving income, just helping or assistance	
Specify Other use of income by %s1_member_name%?		TEXT	1br3_9_1_oth
E 1br3_9_1.Contains(96)			
If seasonal or casual, what is the number of months worked by %s1_member_name% during the rainy season (%rainy_month%) in the last 12 months?		NUMERIC: INTEGER	1br3_10
V1 self.InRange(0,rainy_month_count)			
M1 Maximum number of months is %rainy_month_count%			
If seasonal or casual, what is the number of months worked by %s1_member_name% during the dry season (%dry_month%) in the last 12 months?		NUMERIC: INTEGER	1br3_11
V1 self.InRange(0,dry_month_count)			
M1 Maximum number of months during dry season is %dry_month_count%			
VARIABLE		BOOLEAN	empseas_check
1br3_4==2 & (1br3_10 + 1br3_11)==0			
STATIC TEXT			
E 1br3_4==2 & (1br3_10 + 1br3_11)==0			
V1 empseas_check != true			
M1 If the member is engaged in any seasonal employment activities, his/her participation in either dry or rainy season MUST be >0! Please check.			
ERROR!			

<p>If seasonal or casual, what is the number of days in a typical week worked by %s1_member_name%?</p> <p>E 1br3_11 > 0 1br3_10 > 0</p> <p>V1 self.InRange(1,7)</p> <p>M1 Number of days MUST be between 1 to 7 days in a week! Please confirm the number of days.</p>	<p>NUMERIC: INTEGER 1br3_12</p> <p>-----</p>
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<p>If seasonal or casual, what is the number of hours in a typical day worked by %s1_member_name%?</p> <p>E 1br3_12>0</p> <p>W1 self.InRange(1,24)</p> <p>M1 Number of hours CANNOT be 0 and more than 24! Please confirm.</p>	<p>NUMERIC: INTEGER 1br3_13</p> <p>-----</p>
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[S1] END TIME	<p>DATE: CURRENT TIME s1_end_time</p> <p>-----</p>
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<p>STATIC TEXT</p> <p>E !IsAnswered(s1_end_time)</p> <p>PLEASE RECORD THE END TIME BEFORE YOU START THE SECTION</p>	
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<p>STATIC TEXT</p> <p>E NumberUnansweredQuestions(section_1)>0</p> <p>ATTENTION! YOU HAVE %unanswered_sec_1% UNANSWERED QUESTIONS REMAINING IN THIS SECTION!</p>	
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<p>VARIABLE</p> <p>NumberUnansweredQuestions(section_1)</p>	<p>DOUBLE unanswered_sec_1</p>
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<p>VARIABLE</p> <p>Math.Round((s1_end_time - s1_start_time).value.TotalSeconds / 60,2)</p>	<p>DOUBLE s1_duration</p>
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SECTION 2: LAND TYPES, OWNERSHIP, AND ACCESS

section_2

[S2] START TIME

DATE: CURRENT TIME

s2_start_time

STATIC TEXT

E !IsAnswered(s2_start_time)

PLEASE RECORD THE START TIME BEFORE YOU START THE SECTION

STATIC TEXT

Now we would like to talk about land owned or used by this household in the last 12 months . Could you please indicate the amount of land you currently own, or use, or rent out?

SECTION 2: LAND TYPES, OWNERSHIP, AND ACCESS ACCESS AND CONTROL OVER LAND

How is land measured in this region?

SINGLE-SELECT

1nd_mes

- 01 ☐ Acres
02 ☐ Hectares
96 ☐ Other ➡ Please specify

Please specify if response to land measurement is Other and provide conversion factor to hectares or acres, e.g.: 1 "new unit" = 2 ha

TEXT

1nd_mes_1

E 1nd_mes==96

In total, in the last 12 months, what is the total area of land (in %1nd_mes%) for agricultural and/or pasture purposes that the household has access to or manages regardless if you own or just rent it? Enter 0 if none. If the area varies per season, enter the largest area managed in the last 12 months.

NUMERIC: DECIMAL

1nd_size_access

In which seasons did you cultivate? (multi-select)

MULTI-SELECT: YES/NO

1nd_season

- 01 ☐ Dry season
02 ☐ Wet season
03 ☐ Third season

E 1nd_size_access>0

V1 self.Missing.Length==0

M1 You have not answered all the questions. Please check.

In the last 12 months, how much area of land (in %1nd_mes%) is used during dry season?

NUMERIC: DECIMAL

1nd_size_dry

E 1nd_size_access>0 && 1nd_season.Yes.Contains(1)

V1 (self<=1nd_size_access) && self>0

M1 Area used during dry season MUST NOT be more than the size of accessed land and MUST be greater than 0! It was mentioned that the HH cultivated during dry season in the last 12 months.

In the last 12 months, how much area of land (in %1nd_mes%) is used during wet season?

NUMERIC: DECIMAL

1nd_size_wet

E 1nd_size_access>0 && 1nd_season.Yes.Contains(2)

V1 (self<=1nd_size_access) && self>0

M1 Area used during wet season MUST NOT be more than the size of accessed land and MUST be greater than 0! It was mentioned that the HH cultivated during wet season in the last 12 months.

<p>In the last 12 months, how much area of land (in %Ind_mes%) is used during the third season?</p> <p>E 1nd_size_access>0 && 1nd_season.Yes.Contains(3)</p> <p>V1 (self<=1nd_size_access) && self>0</p> <p>M1 Area used during third season MUST NOT be more than the size of accessed land and MUST be greater than 0! It was mentioned that the HH cultivated during third season in the last 12 months.</p>	<p>NUMERIC: DECIMAL 1nd_size_3season</p> <p>-----</p>
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STATIC TEXT

Please answer the following question for each land use type

<p>In the last 12 months, did the household own, manage, or use the following land types?</p> <p>V1 self.Missing.Length==0</p> <p>M1 You have not answered all the questions! Please check.</p>	<p>MULTI-SELECT: YES/NO 1nd_use_ind</p> <p>01 <input type="checkbox"/>/ <input type="checkbox"/> Cropland</p> <p>02 <input type="checkbox"/>/ <input type="checkbox"/> Fallow</p> <p>03 <input type="checkbox"/>/ <input type="checkbox"/> Agroforestry, forestry, beehives</p> <p>04 <input type="checkbox"/>/ <input type="checkbox"/> Pasture (natural)</p> <p>05 <input type="checkbox"/>/ <input type="checkbox"/> Pasture (planted)</p> <p>06 <input type="checkbox"/>/ <input type="checkbox"/> Forest (natural)</p> <p>07 <input type="checkbox"/>/ <input type="checkbox"/> Forest (planted)</p> <p>96 <input type="checkbox"/>/ <input type="checkbox"/> Other agricultural land uses(e.g. wetland, fish pond)</p>
<p>Please specify other land use type that the HH manages or uses.</p> <p>E 1nd_use_ind.Yes.Contains(96)</p>	<p>TEXT 1nd_use_ind_oth</p> <p>-----</p>

SECTION 2: LAND TYPES, OWNERSHIP, AND ACCESS / ACCESS AND CONTROL OVER LAND

AGRICULTURAL LAND USES

SECTION 2: LAND TYPES, OWNERSHIP, AND ACCESS / ACCESS AND CONTROL OVER LAND / AGRICULTURAL LAND USES

Roster: LANDUSE_TYPE - %ROSTERTITLE%

generated by multi-select question 1nd_use_ind

	<p>r_1anduse</p>
<p>In the last 12 months, what is the total land area under the usage of %rosteritle% in %Ind_mes%?</p> <p>V1 self>0 && self<=(1nd_size_access*3)</p> <p>M1 Land size MUST be more than 0 but not more than 3x of reported area of land that the HH uses! Please check.</p>	<p>NUMERIC: DECIMAL 1nd_size</p> <p>-----</p>
<p>In the last 12 months, what is the total harvested area of %rosteritle% in %Ind_mes%? Enter 0 if none.</p> <p>E (@rowcode==1 @rowcode==3 @rowcode==4 @rowcode==5 @rowcode==6 @rowcode==7 @rowcode==96)</p> <p>V1 1nd_size_harvest<=1nd_size</p> <p>M1 Harvested area should NOT be more than the HH cultivated area!</p>	<p>NUMERIC: DECIMAL 1nd_size_harvest</p> <p>-----</p>
<p>In which season/s do you use the land as %rosteritle%?</p> <p>E (@rowcode==1 @rowcode==2 @rowcode==3 @rowcode==4 @rowcode==5 @rowcode==6 @rowcode==7 @rowcode==96) && 1nd_size>0</p>	<p>MULTI-SELECT 1nd_season2</p> <p>01 <input type="checkbox"/> Dry season</p> <p>02 <input type="checkbox"/> Wet season</p> <p>03 <input type="checkbox"/> Middle/ third season</p>

<p>What is the ownership status or tenure type of land under %rosteritle%?</p> <p>I If land has multiple tenure statuses (e.g if household owns but also rents some of the land), select the status with largest share.</p> <p>E 1nd_size > 0</p>	<p>SINGLE-SELECT 1nd_ten</p> <p>01 <input type="radio"/> State owned</p> <p>02 <input type="radio"/> Private owned with land title</p> <p>03 <input type="radio"/> Private owned with no land title</p> <p>04 <input type="radio"/> Leased/rented</p> <p>05 <input type="radio"/> Contract farming land</p> <p>06 <input type="radio"/> Communally or community owned</p> <p>07 <input type="radio"/> Co-share/ co-farming</p> <p>96 <input type="radio"/> Others, specify</p>
<p>Specify other tenure status of %rosteritle%</p> <p>E 1nd_ten==96</p>	<p>TEXT 1nd_ten_oth</p> <p>.....</p>
<p>If %rosteritle% has land title, whose name is the land title in?</p> <p>E 1nd_ten==2</p>	<p>MULTI-SELECT: LINKED 1nd_title_own</p> <p>SOURCE OF CATEGORIES: ROSTER R MEMBERS</p>
<p>Total irrigated area [in %1nd_mes%] of %rosteritle%</p> <p>V1 (self<=1nd_size)</p> <p>M1 Irrigated area MUST NOT be more than the reported HH land size!</p>	<p>NUMERIC: DECIMAL irrig_area</p> <p>-----</p>
<p>What is the size of the household's residential area? (in %1nd_mes%)</p>	<p>NUMERIC: DECIMAL house_area</p> <p>-----</p>
<p>In the last 5 years, have your household ever been involved in a land dispute concerning any land and parcel under the household's usage?</p>	<p>SINGLE-SELECT 1nd_07</p> <p>01 <input type="radio"/> Yes</p> <p>00 <input type="radio"/> No</p>
<p>What is/are the reasons for this land dispute?</p> <p>E 1nd_07==1</p>	<p>MULTI-SELECT: ORDERED 1nd_dispute_reason</p> <p>01 <input type="checkbox"/> Animals grazing, feeding on my plot</p> <p>02 <input type="checkbox"/> Theft, robbery of crops/ harvest</p> <p>03 <input type="checkbox"/> Water usage issues, irrigation schedule</p> <p>04 <input type="checkbox"/> Land grabbing</p> <p>96 <input type="checkbox"/> Others, specify</p>
<p>Please specify other reason for land dispute.</p> <p>E 1nd_dispute_reason.Contains(96)</p>	<p>TEXT 1nd_dispute_oth</p> <p>.....</p>
<p>[S2] END TIME</p>	<p>DATE: CURRENT TIME s2_end_time</p> <p>.....</p>

STATIC TEXT

E !IsAnswered(s2_end_time)

PLEASE RECORD THE END TIME BEFORE YOU START THE NEXT SECTION

STATIC TEXT

E NumberUnansweredQuestions(section_2)>0

ATTENTION! YOU HAVE %unanswered_sec_2% UNANSWERED QUESTIONS REMAINING IN THIS SECTION!

<div>VARIABLE</div> <div>NumberUnansweredQuestions(section_2)</div>	<div>DOUBLE</div> <div>unanswered_sec_2</div>
<div>VARIABLE</div> <div>Math.Round((s2_end_time - s2_start_time).value.TotalSeconds / 60,2)</div>	<div>DOUBLE</div> <div>s2_duration</div>

SECTION 3: CROPS AND PASTURE

section_3

[S3] START TIME

DATE: CURRENT TIME

s3_start_time

STATIC TEXT

E !IsAnswered(s3_start_time)

PLEASE RECORD THE START TIME BEFORE YOU START THE SECTION

SECTION 3: CROPS AND PASTURE

PRODUCTION DETAILS

E 1nd_size_dry>0 || 1nd_size_wet>0 || 1nd_size_3season>0

How many crops types, including pasture, did the household grow/harvest in the last 12 months?

NUMERIC: INTEGER

crop_num

V1 crop_num>0

M1 Number of crops or pasture grown should be greater than 0! It was earlier reported the HH cultivates the land during dry or wet season in the last 12 months.

In the last 12 months, what are the crops or pasture grass that the household grow or cultivate? Select all the apply.

MULTI-SELECT

crop_name

- 01 ☐ African foxtail grass / Cenchrus ciliaris
- 02 ☐ Massai love grass / Erasmogon is superba
- 03 ☐ Other forage grass
- 04 ☐ Banana
- 05 ☐ Barley
- 06 ☐ Beans
- 07 ☐ Butternuts
- 08 ☐ Cabbage
- 09 ☐ Coffee
- 10 ☐ Flowers
- 11 ☐ Garlic
- 12 ☐ Green gram
- 13 ☐ Groundnuts
- 14 ☐ Maize
- 15 ☐ Mango
- 16 ☐ Millet

[And 12 other symbols \[80\]](#)

Specify Other Crop type

TEXT

crop_name_oth

E crop_name.Contains(96)

SECTION 3: CROPS AND PASTURE / PRODUCTION DETAILS

Roster: CROP PLANTED - %ROSTERTITLE%

E crop_num>0

In which seasons do you grow or cultivate %rostertitle% ? (Multi-select)	MULTI-SELECT crop_season 01 <input type="checkbox"/> Dry season 02 <input type="checkbox"/> Wet season 03 <input type="checkbox"/> Third / Middle season
How many years have you been growing or cultivating %rostertitle% ?	NUMERIC: DECIMAL crop_year -----
V1 self>0 M1 Years MUST be more than 0! It was previously reported that the HH has been growing the crop or pasture.	
Type of seeds used for %rostertitle%	SINGLE-SELECT crop_seed 01 <input type="radio"/> Traditional 02 <input type="radio"/> Improved 03 <input type="radio"/> Hybrid 04 <input type="radio"/> Mixed but mainly traditional 05 <input type="radio"/> Mixed but mainly improved 06 <input type="radio"/> Mixed but mainly hybrid 96 <input type="radio"/> Others, sepcify
Please specify other seed type for %rostertitle% .	TEXT crop_seed_oth -----
E crop_seed==96	
Unit of measurement of the seed %rostertitle% every time you purchase them.	SINGLE-SELECT crop_seed_unit 01 <input type="radio"/> Grams 02 <input type="radio"/> Kilograms 96 <input type="radio"/> Others, specify
Please specify other unit of measurement of the seed for %rostertitle% .	TEXT crop_seed_unit_oth -----
E crop_seed_unit==96	
During %rostertitle% 's cultivation times in the last 12 months, what is the TOTAL amount of seed used? (in %crop_seed_unit%)	NUMERIC: DECIMAL crop_seed_amt -----
V1 crop_seed_amt>0 M1 Total seed used MUST be greater than 0! It was reported earlier that the HH cultivated or grew the crop in the last 12 months.	
How much did you pay for the seeds of %rosteritle% the last time you used them? Enter 0 if none or saved seed (in Ksh per unit %crop_seed_unit%)	NUMERIC: DECIMAL crop_seed_price -----

<p>Approximately how much TOTAL land did you allocate to cultivate %rosteritle% during in the last 12 months? (in %Ind_mes%)</p> <p>V1 crop_area>0 && self<=(Ind_size_access*3)</p> <p>M1 Total area under cultivation for the crop MUST be greater than 0! It was previously reported that the HH cultivated or grew the crop in the last 12 months. Total area under cultivation for the crop MUST NOT be greater than three times of reported land size accessed by the HH in the last 12 months. Please check.</p>	<p>NUMERIC: DECIMAL crop_area</p> <p>-----</p>
<p>Is the crop %rosteritle% under contract farming?</p>	<p>SINGLE-SELECT crop_contract_ind</p> <p>01 <input type="radio"/> Yes</p> <p>00 <input type="radio"/> No</p>
<p>Approximately how much TOTAL land was under contract for %rosteritle% cultivation in the last 12 months? (in %Ind_mes%)</p> <p>E crop_contract_ind==1</p> <p>V1 (crop_area_contract<=crop_area) && self>0</p> <p>M1 Total contracted area MUST NOT be more than total cultivated area of the crop or pasture. Area contracted of the crop MUST be more than 0 too! It was previously reported that the crop is under contract farming. Please check.</p>	<p>NUMERIC: DECIMAL crop_area_contract</p> <p>-----</p>
<p>Approximately how much TOTAL land was harvested for %rosteritle% in the last 12 months? (in %Ind_mes%)</p> <p>V1 crop_area_harvest<=crop_area</p> <p>M1 Total harvested area MUST NOT be more than total cultivated area of the crop or pasture.</p>	<p>NUMERIC: DECIMAL crop_area_harvest</p> <p>-----</p>
<p>What is the unit of measurement for the harvest of %rosteritle%?</p> <p>E crop_area_harvest>0</p>	<p>SINGLE-SELECT crop_unit</p> <p>01 <input type="radio"/> Grams</p> <p>02 <input type="radio"/> Kilograms</p> <p>03 <input type="radio"/> Liters</p> <p>04 <input type="radio"/> Numbers</p> <p>05 <input type="radio"/> Basins</p> <p>06 <input type="radio"/> 2kg packet</p> <p>07 <input type="radio"/> 10kg bag</p> <p>08 <input type="radio"/> 25kg bag</p> <p>09 <input type="radio"/> 50 kg bag</p> <p>10 <input type="radio"/> 90 kg bag</p> <p>11 <input type="radio"/> 100 kg bag</p> <p>12 <input type="radio"/> Crates</p> <p>13 <input type="radio"/> Bunches</p> <p>14 <input type="radio"/> Debe</p> <p>15 <input type="radio"/> Wheelbarrow</p> <p>16 <input type="radio"/> Bale / Bundle</p> <p>And 7 other symbols [88]</p>
<p>Please specify other unit of measurement for the harvest of %rosteritle%.</p> <p>E crop_unit==96</p>	<p>TEXT crop_harvest_unit_oth</p> <p>-----</p>

<p>What is the TOTAL harvested quantity of %rosteritle% in the last 12 months? (in %crop_unit%)</p> <p>E crop_area_harvest>0 V1 crop_output>0 M1 Total harvested quantity MUST be greater than 0! It was reported that the HH harvested the crop.</p>	<p>NUMERIC: DECIMAL crop_output</p> <p>-----</p>
<p>What is the unit of measurement for harvest consumed at home of %rosteritle%?</p> <p>E crop_area_harvest>0</p>	<p>SINGLE-SELECT crop_unit_homecons</p> <p>01 <input type="radio"/> Grams 02 <input type="radio"/> Kilograms 03 <input type="radio"/> Liters 04 <input type="radio"/> Numbers 05 <input type="radio"/> Basins 06 <input type="radio"/> 2kg packet 07 <input type="radio"/> 10kg bag 08 <input type="radio"/> 25kg bag 09 <input type="radio"/> 50 kg bag 10 <input type="radio"/> 90 kg bag 11 <input type="radio"/> 100 kg bag 12 <input type="radio"/> Crates 13 <input type="radio"/> Bunches 14 <input type="radio"/> Debe 15 <input type="radio"/> Wheelbarrow 16 <input type="radio"/> Bale / Bundle</p> <p>And 7 other symbols [88]</p>
<p>Amount of the harvest of %rosteritle% used for HOME CONSUMPTION? (in %crop_unit_home cons%) Enter 0 if none.</p> <p>E crop_output>0 V1 crop_output_home<=crop_output M1 Total quantity used for HOME CONSUMPTION MUST NOT be more than the harvested quantity!</p>	<p>NUMERIC: DECIMAL crop_output_home</p> <p>-----</p>
<p>Amount of the harvest of %rosteritle% SOLD or bartered immediately after harvest ? (in %crop_unit%) Enter 0 if none.</p> <p>E crop_output>0 V1 crop_output_sold<=crop_output M1 Total quantity SOLD MUST NOT be more than the harvested quantity!</p>	<p>NUMERIC: DECIMAL crop_output_sold</p> <p>-----</p>
<p>Selling price of %rosteritle% at sale in Ksh per %crop_unit%.</p> <p>E crop_output_sold>0 V1 crop_price>0 M1 Answer MUST be greater than 0! It was reported that the HH sold some harvest of the crop.</p>	<p>NUMERIC: DECIMAL crop_price</p> <p>-----</p>

<p>Amount of the harvest of %rosteritle% STORED for future selling or use? (in %crop_unit%) Enter 0 if none.</p> <p>E crop_output>0 V1 self <=crop_output M1 Total quantity STORED MUST NOT be more than the harvested quantity!</p>	<p>NUMERIC: DECIMAL crop_output_stored</p> <p>-----</p>
<p>Amount of the harvest of %rosteritle% SAVED seeds for next planting? (in %crop_unit%) Enter 0 if none.</p> <p>E crop_output>0 V1 self <=crop_output M1 Total quantity of SAVED SEEDS MUST NOT be more than the harvested quantity!</p>	<p>NUMERIC: DECIMAL crop_output_seeds</p> <p>-----</p>
<p>Amount of the harvest of %rosteritle% given FOR OTHER USES (e.g. in kind payment, gifts, weddings, funerals, etc.). (in %crop_unit%). Enter 0 if none.</p> <p>E crop_output>0 V1 self <= crop_output M1 Total quantity of output for OTHER USES MUST NOT be more than the harvested quantity!</p>	<p>NUMERIC: DECIMAL crop_output_oth</p> <p>-----</p>
<p>Please specify other uses of %rosteritle% harvest.</p> <p>E crop_output_oth>0</p>	<p>TEXT crop_output_othuse</p> <p>-----</p>
<p>VARIABLE crop_output_home + crop_output_sold + crop_output_stored + crop_output_seeds + crop_output_oth</p>	<p>DOUBLE crop_output_verify</p>
<p>STATIC TEXT</p> <p>E (crop_output_home + crop_output_sold + crop_output_stored + crop_output_seeds + crop_output_oth)!= crop_output V1 (crop_output_verify != crop_output) != true M1 The sum amount of the crop's harvest by utilization is NOT equal to the crop output reported. Please check the distribution of output by utilization a gain.</p> <p>ERROR!</p>	
<p>What is the total irrigated area of the crop %rosteritle%? Enter 0 if none is irrigated.</p> <p>V1 self <= crop_area M1 Total irrigated area MUST NOT be more than the cultivated area!</p>	<p>NUMERIC: DECIMAL crop_irrig</p> <p>-----</p>
<p>Did you apply any ORGANIC FERTILIZERS (e.g. manure, vermiculture, worms) in the cultivation of %rosteritle% in last 12 months?</p> <p>I Organic fertilizer is a type of fertilizer made from natural materials such as animal waste (manure), compost, bone meal, and other organic matter. It is used to enhance soil fertility and promote plant growth. And 170 other symbols [2] E crop_area>0</p>	<p>SINGLE-SELECT cp07</p> <p>01 <input type="radio"/> Yes 00 <input type="radio"/> No</p>
<p>Did you apply any INORGANIC FERTILIZERS in the cultivation of %rosteritle% in the last 12 months?</p> <p>I An inorganic fertilizer is a type of fertilizer that does not contain organic matter and is derived from mineral sources such as nitrates, phosphates, and potash. Inorganic fertilizers are often highly soluble. And 281 other symbols [3] E crop_area>0</p>	<p>SINGLE-SELECT cp08</p> <p>01 <input type="radio"/> Yes 00 <input type="radio"/> No</p>

<p>Did you apply any PESTICIDE in the cultivation of %rosteritle% in the last 12 months?</p> <p>I A pesticide is a chemical substance used to control, eliminate, or prevent the growth and spread of harmful insects, rodents, and other pests that cause damage to crops. These chemicals can be either And 266 other symbols [4]</p> <p>E crop_area>0</p>	<p>SINGLE-SELECT cp09</p> <p>01 <input type="radio"/> Yes</p> <p>00 <input type="radio"/> No</p>
<p>Did you use a TRACTOR to plough or harvest your land or any MACHINERY in the cultivation of %rosteritle% in the last 12 months?</p> <p>E crop_area>0</p>	<p>SINGLE-SELECT cp10</p> <p>01 <input type="radio"/> Yes</p> <p>00 <input type="radio"/> No</p>
<p>Did you hire and pay any labour in the cultivation of %rosteritle% in the last 12 months?</p> <p>E crop_area>0</p>	<p>SINGLE-SELECT cp11</p> <p>01 <input type="radio"/> Yes</p> <p>00 <input type="radio"/> No</p>

SECTION 3: CROPS AND PASTURE

CROP AND PASTURE EXPENDITURES

E crop_num>0

STATIC TEXT

Now I will ask you how much money you spent (in %currency%) on different inputs for crop production in the last 12 months. If the household did not spend money or use a particular input, please put 0.

<p>Approximate amount of money spent on ORGANIC FERTILIZERS (e.g. manure, vermiculture, worms) in last 12 months? Enter 0 if none.</p>	<p>NUMERIC: INTEGER crp_exp_organicfert</p> <p>-----</p>
<p>Approximate amount of money spent on INORGANIC FERTILIZERS (e.g. N, P, K) in last 12 months? Enter 0 if none.</p>	<p>NUMERIC: INTEGER crp_exp_inorganicfert</p> <p>-----</p>
<p>Approximate amount of money spent on PESTICIDES in last 12 months? Enter 0 if none.</p>	<p>NUMERIC: INTEGER crp_exp_pest</p> <p>-----</p>
<p>Approximate amount of money spent on MACHINERY (e.g. tractors) in last 12 months? Enter 0 if none.</p>	<p>NUMERIC: INTEGER crp_exp_machine</p> <p>-----</p>
<p>Approximate amount of money spent on HIRE D LABOUR in last 12 months? Enter 0 if none.</p>	<p>NUMERIC: INTEGER crp_exp_labour</p> <p>-----</p>
<p>Approximate amount of money spent on RENTING LAND in last 12 months? Enter 0 if none.</p>	<p>NUMERIC: INTEGER crp_exp_landrent</p> <p>-----</p>
<p>Approximate amount of money spent on TRANSPORT for inputs and produce to and from markets in the last 12 months? Enter 0 if none.</p>	<p>NUMERIC: INTEGER crp_exp_transport</p> <p>-----</p>
<p>Approximate amount of money spent on IRRIGATION in the last 12 months? Enter 0 if none.</p>	<p>NUMERIC: INTEGER crp_exp_irrig</p> <p>-----</p>

Approximate amount of money spent on Other inputs in last 12 months? Enter 0 if none.	NUMERIC: INTEGER crp_exp_oth <div></div>
Please specify what other inputs have you used for agricultural purposes. E crp_exp_oth>0	TEXT crp_exp_othinput <div></div>
[S3] END TIME	DATE: CURRENT TIME s3_end_time <div></div>
STATIC TEXT E !IsAnswered(s3_end_time) <div>PLEASE RECORD THE END TIME BEFORE YOU START THE NEXT SECTION</div>	
STATIC TEXT E NumberUnansweredQuestions(section_3)>0 <div>ATTENTION! YOU HAVE %unanswered_sec_3% UNANSWERED QUESTIONS REMAINING IN THIS SECTION!</div>	
VARIABLE NumberUnansweredQuestions(section_3)	DOUBLE unanswered_sec_3
VARIABLE Math.Round((s3_end_time - s3_start_time).value.TotalSeconds / 60,2)	DOUBLE s3_duration

SECTION 4: LIVESTOCK OWNERSHIP AND PRODUCTION

section_4

[S4]START TIME	DATE: CURRENT TIME	s4_start_time
<div></div>		

STATIC TEXT

E !IsAnswered(s4_start_time)

PLEASE RECORD THE START TIME BEFORE YOU START THE SECTION

STATIC TEXT

This section of the questionnaire is about livestock including poultry and beehives. Report for all animals on the holding, regardless of ownership, including those that are boarded (animals in pension), owned by another member of the household .

Did you or anyone in your household own any livestock including poultry and beehives in the last 12 months?	SINGLE-SELECT	any_livestock
	01 <input type="radio"/> Yes	
	00 <input type="radio"/> No	

SECTION 4: LIVESTOCK OWNERSHIP AND PRODUCTION OWNERSHIP AND PRODUCTION DETAILS

E any_livestock==1

During the last 12 months, have you or any member of your household <u>owned</u> any of the following?	MULTI-SELECT	lv
I OWNER(S) CAN BE WITHIN AND/OR OUTSIDE THE HOUSEHOLD	01 <input type="checkbox"/>	Bulls/Oxen/Steers
	02 <input type="checkbox"/>	Cows/Heifers
	03 <input type="checkbox"/>	Calves - (young female or male cow or bull)
	04 <input type="checkbox"/>	Goats - He/She/Kids
	05 <input type="checkbox"/>	Sheep - Rams/Ewes/Lambs
	06 <input type="checkbox"/>	Camels
	07 <input type="checkbox"/>	Donkey / Mules
	08 <input type="checkbox"/>	Poultry (chicken, ducks, others)
	09 <input type="checkbox"/>	Beehives and other Insects (bees, crickets, etc.)
	10 <input type="checkbox"/>	Horses
	11 <input type="checkbox"/>	Dogs
	96 <input type="checkbox"/>	Others, specify
Specify other livestock type	TEXT	lv_oth
E lv.Contains(96)	<div></div>	

SECTION 4: LIVESTOCK OWNERSHIP AND PRODUCTION / OWNERSHIP AND PRODUCTION DETAILS
Roster: LIVESTOCK - %ROSTERTITLE%
generated by multi-select question lv

r_livestock

Number of %rosteritle% owned 12 months ago	NUMERIC: INTEGER 1v01_ago -----
Number of %rosteritle% currently owned	NUMERIC: INTEGER 1v02 -----
Breed of %rosteritle% owned by the household. Please select all that apply.	MULTI-SELECT 1v_breed 01 <input type="checkbox"/> Traditional or local breeds 02 <input type="checkbox"/> Regional (within Africa) or transboundary breeds 03 <input type="checkbox"/> International transboundary breeds 04 <input type="checkbox"/> Graded or crossbreds 96 <input type="checkbox"/> Others, specify
Please specify other breed of %rosteritle% owned by the household.	TEXT 1v_breed_oth -----
E 1v_breed.Contains(96)	
Number of %rosteritle% sold or bartered (including slaughtered or live animal) in the last 12 months. Enter 0 if none.	NUMERIC: INTEGER 1v03 -----
Number of %rosteritle% slaughtered for own use in the last 12 months. Enter 0 if none.	NUMERIC: INTEGER 1v04 -----
Number of %rosteritle% given as in-kind payment (e.g. for loans, labour, land, etc.) in the last 12 months. Enter 0 if none.	NUMERIC: INTEGER 1v_inkind_pay -----
Number of %rosteritle% given for free as gifts (e.g. dowry, bridal gifts, wedding, funeral, etc.) in the last 12 months. Enter 0 if none.	NUMERIC: INTEGER 1v05 -----
Number of %rosteritle% died due to diseases in the last 12 months. Enter 0 if none.	NUMERIC: INTEGER 1v06 -----
Number of %rosteritle% lost due to theft, cattle raids, attacks in the last 12 months. Enter 0 if none.	NUMERIC: INTEGER 1v07 -----
Price per %rosteritle% head sold including slaughter for sale and barter (live animal or slaughter) in %currency%. E 1v03>0 1v_inkind_pay>0 v1 self > 0 M1 Price must be more than 0! It was previously reported that the HH sold or pay the livestock.	NUMERIC: INTEGER 1v_price -----

E any_livestock==1

<p>In the last 12 months, did the household produce other livestock products besides live and slaughtered animal? (e.g. meat, milk, sour milk, ghee, cheese, eggs, hides, honey, etc.)</p>	<p>SINGLE-SELECT liv_othproducts_ind</p> <p>01 <input type="radio"/> Yes</p> <p>00 <input type="radio"/> No</p>
<p>What other livestock products have your household produced (regardless if it was sold or not) besides the live and slaughter animal? Please select all that apply. (e.g. meat, milk, sour milk, ghee, cheese, eggs, hides, honey, etc.)</p> <p>E liv_othproducts_ind==1</p>	<p>MULTI-SELECT liv_othproducts</p> <p>08 <input type="checkbox"/> Meat</p> <p>01 <input type="checkbox"/> Milk</p> <p>02 <input type="checkbox"/> Cheese</p> <p>03 <input type="checkbox"/> Yogurt</p> <p>04 <input type="checkbox"/> Wool</p> <p>05 <input type="checkbox"/> Honey, beeswax</p> <p>06 <input type="checkbox"/> Honeybrew</p> <p>07 <input type="checkbox"/> Eggs</p> <p>96 <input type="checkbox"/> Others, specify</p>
<p>Please specify other livestock product that the household has produced besides the live and slaughter animal.</p> <p>E liv_othproducts.Contains(96)</p>	<p>TEXT liv_pdts_oth</p> <p>.....</p>
<p>How much is the approximate total income earned for all other livestock products produced and sold in the last 12 months? Enter 0 if no income is received, and just for family consumption.</p> <p>E liv_othproducts_ind==1</p>	<p>NUMERIC: INTEGER livinc_howmuch</p> <p>-----</p>
<p>Are any of your livestock products including live and slaughtered animals, milk, cheese, eggs, etc. contracted by any company to supply them with your livestock products?</p> <p>E liv_othproducts_ind==1</p>	<p>SINGLE-SELECT liv_contract</p> <p>01 <input type="radio"/> Yes</p> <p>00 <input type="radio"/> No</p>
<p>If yes, what are the livestock products that have been contracted? Please select all that apply.</p> <p>E liv_contract==1</p>	<p>MULTI-SELECT contract_livspecies</p> <p>01 <input type="checkbox"/> Live animal</p> <p>02 <input type="checkbox"/> Slaughter animal or meat</p> <p>03 <input type="checkbox"/> Milk</p> <p>04 <input type="checkbox"/> Cheese</p> <p>05 <input type="checkbox"/> Yogurt</p> <p>06 <input type="checkbox"/> Wool</p> <p>07 <input type="checkbox"/> Honey, beeswax</p> <p>08 <input type="checkbox"/> Honeybrew</p> <p>09 <input type="checkbox"/> Eggs</p> <p>96 <input type="checkbox"/> Others, specify</p>

If selling live or slaughtered animal, what livestock animal have been contracted? Please select all that apply.

E contract_livspecies.Contains(1) || contract_livspecies.Contains(2)

MULTI-SELECT: LINKED
SOURCE OF CATEGORIES: ROSTER [R LIVESTOCK](#)

contract_livtype

SECTION 4: LIVESTOCK OWNERSHIP AND PRODUCTION
LIVESTOCK EXPENDITURE

E any_livestock==1

STATIC TEXT

In the last 12 months, how much in total cost did your household spend on the following livestock inputs and management costs? Enter 0 if none.

Feed or fodder

NUMERIC: INTEGER 1vexp01_11

Rent for grazing land

NUMERIC: INTEGER 1vexp02_12

Medicines, vaccination, insemination and other vet services

NUMERIC: INTEGER 1vexp03_13

Maintenance costs (pens, barns, enclosures, shelter kraals etc.)

NUMERIC: INTEGER 1vexp04_14

Hired labour for livestock management

NUMERIC: INTEGER 1vexp05_15

Any other livestock related expense (e.g salt)?

NUMERIC: INTEGER 1vexp06_16

Please specify other livestock costs that the household has spent.

TEXT 1vexp06_16_oth

E 1vexp06_16>0

VARIABLE

1vexp01_11 + 1vexp02_12 + 1vexp03_13 + 1vexp04_14 + 1vexp05_15 + 1vexp06_16

DOUBLE 1v_exp_verify

STATIC TEXT

E 1v_exp_verify ==0

V1 1v_exp_verify != 0

M1 The total livestock expenses MUST NOT be 0! Please specify the costs spent for livestock production.

ERROR!

[S4]END TIME

DATE: CURRENT TIME s4_end_time

STATIC TEXT

E !IsAnswered(s4_end_time)

PLEASE RECORD THE END TIME BEFORE YOU START THE NEXT SECTION

STATIC TEXT

E NumberUnansweredQuestions(section_4)>0

ATTENTION! YOU HAVE %unanswered_sec_4% UNANSWERED QUESTIONS REMAINING IN THIS SECTION!

VARIABLE NumberUnansweredQuestions(section_4)	DOUBLE unanswered_sec_4
VARIABLE Math.Round((s4_end_time - s4_start_time).value.TotalSeconds / 60,2)	DOUBLE s4_duration

SECTION 5: SOCIAL CAPITAL

section_5

[S5]START TIME

DATE: CURRENT TIME

s5_start_time

STATIC TEXT

E !IsAnswered(s5_start_time)

PLEASE RECORD THE START TIME BEFORE YOU START THE SECTION

STATIC TEXT

This Role Model sub-section should be asked to BOTH MEN AND WOMEN of the household, preferably the head and his/her spouse (e.g. husband and wife).

In case the other member is not present or available for interview, we ask for other male/female member of similar age who is involved in farm activities.

Subsections Information, Cooperative, and Training are asked only to MAIN RESPONDENT.

Among the following members, who is available for interview ?

MULTI-SELECT: LINKED
SOURCE OF CATEGORIES: ROSTER [R MEMBERS](#)

available_member

I Please ask for ONE MEN AND WOMEN of the household, preferably the head and his/her spouse (e.g. husband and wife). In case the member is not present or available for interview, we ask for other male
[And 278 other symbols \[5\]](#)

F age>\$working_age

W1 available_member.Length==2

M1 You must interview one male and one female household members

SECTION 5: SOCIAL CAPITAL

Roster: SOCIAL CAPITAL - %ROSTERTITLE%

generated by list question [numfamily](#)

r_social_capital

E available_member.Select(x=>x[0]).Contains(@rowcode)

SECTION 5: SOCIAL CAPITAL / SOCIAL CAPITAL - %ROSTERTITLE%
ROLE MODELS

STATIC TEXT

Now we would like to talk about your connection to other people or households in this village. We ask you to mention your interactions with different people and name the three most influential persons in this village.

Please list up to three most respected or influential individuals in this village that you turn to for advice on agriculture and livestock-related matters, health intervention, or others.

LIST

infper

SECTION 5: SOCIAL CAPITAL / SOCIAL CAPITAL - %ROSTERTITLE% / ROLE MODELS

Roster: INFLUENTIAL PEOPLE - %ROSTERTITLE%

generated by list question [infper](#)

r_infu

Which of the following functions applies to %rostertitle%?	<div>MULTI-SELECTas07</div> <div> <div>01<input type="checkbox"/> Government worker</div> <div>02<input type="checkbox"/> Private extension work (e.g. Kenya seed extensionist, dealers, traders)</div> <div>03<input type="checkbox"/> Religious leader</div> <div>04<input type="checkbox"/> Village/ Traditional/ Cultural leader</div> <div>05<input type="checkbox"/> Village elder</div> <div>06<input type="checkbox"/> Teacher or health worker</div> <div>07<input type="checkbox"/> Agricultural innovator / model farmer</div> <div>08<input type="checkbox"/> NGO worker</div> <div>09<input type="checkbox"/> Friend</div> <div>10<input type="checkbox"/> Relative</div> <div>11<input type="checkbox"/> Neighbour</div> <div>96<input type="checkbox"/> Others, specify</div> </div>
Please specify the other role that applies to %rostertitle%. <div>E as07.Contains(96)</div>	<div>TEXTas07_oth</div> <div>.....</div>
Gender of %rostertitle%?	<div>SINGLE-SELECTnetwork_mostinf_gender</div> <div> <div>01<input type="radio"/> Men</div> <div>00<input type="radio"/> Women</div> <div>96<input type="radio"/> Others</div> </div>
Ethnicity of %rostertitle%?	<div>SINGLE-SELECTnetwork_mostinf_eth</div> <div> <div>01<input type="radio"/> Ilchamus</div> <div>02<input type="radio"/> Tugen</div> <div>03<input type="radio"/> Pokot</div> <div>04<input type="radio"/> Maasai</div> <div>96<input type="radio"/> Others, specify</div> </div>
Please specify Other ethnicity. <div>E network_mostinf_eth==96</div>	<div>TEXTnetwork_eth_oth</div> <div>.....</div>
Age group of %rostertitle%?	<div>SINGLE-SELECTnetwork_mostinf_agegrp</div> <div> <div>01<input type="radio"/> In their 20s</div> <div>02<input type="radio"/> In their 30s</div> <div>03<input type="radio"/> In their 40s</div> <div>04<input type="radio"/> In their 50s</div> <div>05<input type="radio"/> In their 60s</div> <div>06<input type="radio"/> >70</div> </div>

What is the walking time to the place where you mostly meet %rosteritle% to receive the advice? (in minutes)	NUMERIC: DECIMAL network_mostinf_time -----
In the last 30 days, how many times did you talk with %rosteritle% ? V1 self <= 31 M1 Number of days CANNOT be more than 31 days!	NUMERIC: INTEGER network_mostinf_freq -----

SECTION 5: SOCIAL CAPITAL
INFORMATION AND ADVISORY SERVICE PROVIDER

STATIC TEXT

Now we would like to talk about the household information and advisory service providers or where do the household mainly seek advice or information.

Who in the household mainly receives information? I Please mention first who most frequently receives the information. [multi-select ordered]	MULTI-SELECT: ORDERED, LINKED SOURCE OF CATEGORIES: ROSTER R MEMBERS info_recipient
Where or who does the household FREQUENTLY seek, go to, or talk to about any advice or information outside your household? V1 self.Missing.Length==0 M1 You have not answered all the questions. Please check.	MULTI-SELECT: YES/NO info_source 01 <input type="checkbox"/> / <input type="checkbox"/> Government extension (in person) 02 <input type="checkbox"/> / <input type="checkbox"/> Private extension (e.g. Kenya seed extensionist, dealers, traders) (in-person) 03 <input type="checkbox"/> / <input type="checkbox"/> Religious leader 04 <input type="checkbox"/> / <input type="checkbox"/> Village leader 05 <input type="checkbox"/> / <input type="checkbox"/> Village elder 06 <input type="checkbox"/> / <input type="checkbox"/> NGO (in person) 07 <input type="checkbox"/> / <input type="checkbox"/> Other farmers (e.g. progressive farmers) 08 <input type="checkbox"/> / <input type="checkbox"/> Radio 09 <input type="checkbox"/> / <input type="checkbox"/> Television 10 <input type="checkbox"/> / <input type="checkbox"/> Phone/mobile phone 96 <input type="checkbox"/> / <input type="checkbox"/> Others, specify
Please specify other information and advisory service provider. E info_source.Yes.Contains(96)	TEXT info_source_oth -----

SECTION 5: SOCIAL CAPITAL / INFORMATION AND ADVISORY SERVICE PROVIDER
Roster: INFORMATION AND ADVISORY SOURCES - **%ROSTERTITLE%**
generated by multi-select question [info_source](#)

Gender of %rosteritle% ? E (@rowcode>=1 && @rowcode<=7) @rowcode==96	SINGLE-SELECT network_info_gender 01 <input type="radio"/> Men 00 <input type="radio"/> Women 96 <input type="radio"/> Others
---------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------

Ethnicity of %rosteritle%?

E (@rowcode>=1 && @rowcode<=7) || @rowcode==96

SINGLE-SELECTnetwork_info_eth

01

☐

Ilchamus

02

☐

Tugen

03

☐

Pokot

04

☐

Maasai

96

☐

Others, specify

Please specify Other ethnicity.

E network_info_eth==96

TEXTnetwork_info_eth_oth

.....

Age group of %rosteritle%?

E (@rowcode>=1 && @rowcode<=7) || @rowcode==96

SINGLE-SELECTnetwork_info_agegrp

01

☐

In their 20s

02

☐

In their 30s

03

☐

In their 40s

04

☐

In their 50s

05

☐

In their 60s

06

☐

>70

What is the walking time to the place where you mostly meet %rosteritle% to receive the advice? (in minutes)

NUMERIC: DECIMALnetwork_info_time

.....

In the last 30 days, how many times did you meet with the information provider %rosteritle%?

E (@rowcode>=1 && @rowcode<=7) || @rowcode==96
V1 self <= 31
M1 Number of days CANNOT be more than 31 days!

NUMERIC: INTEGERnetwork_freq

.....

SECTION 5: SOCIAL CAPITAL
COOPERATIVE MEMBERSHIP

STATIC TEXT

Now we would like to talk about the participation or membership of the household members in different groups in the community.

<p>What are the groups or associations you know are existing in the community? Please select all that apply.</p> <p>V1 self.Missing.Length==0</p> <p>M1 You have not answered all the questions. Please check.</p>	<p>MULTI-SELECT: YES/NO</p> <p>group_ind</p> <p>01 <input type="checkbox"/>/ <input type="checkbox"/> Agricultural / livestock / fisheries producer's group</p> <p>02 <input type="checkbox"/>/ <input type="checkbox"/> Contract growers group</p> <p>03 <input type="checkbox"/>/ <input type="checkbox"/> Water users' group or irrigator's association</p> <p>04 <input type="checkbox"/>/ <input type="checkbox"/> Forest users' group</p> <p>05 <input type="checkbox"/>/ <input type="checkbox"/> Credit or microfinance group or loan</p> <p>06 <input type="checkbox"/>/ <input type="checkbox"/> Savings group, self or mutual -help groups (e.g. merry-go-round, table banking)</p> <p>07 <input type="checkbox"/>/ <input type="checkbox"/> Trade / marketing / business association and groups</p> <p>08 <input type="checkbox"/>/ <input type="checkbox"/> Religious group</p> <p>09 <input type="checkbox"/>/ <input type="checkbox"/> Men's group</p> <p>10 <input type="checkbox"/>/ <input type="checkbox"/> Women's group</p> <p>11 <input type="checkbox"/>/ <input type="checkbox"/> Youth group</p> <p>13 <input type="checkbox"/>/ <input type="checkbox"/> Parent/ Teacher's / School association</p> <p>14 <input type="checkbox"/>/ <input type="checkbox"/> Political party</p> <p>96 <input type="checkbox"/>/ <input type="checkbox"/> Other, specify</p>
<p>Please specify the other organization or group in the community.</p> <p>E group_ind.Yes.Contains(96)</p>	<p>TEXT</p> <p>group_ind_oth</p> <p>.....</p>

SECTION 5: SOCIAL CAPITAL / COOPERATIVE MEMBERSHIP

Roster: ORGANIZATIONS/GROUPS - %ROSTERTITLE%

generated by multi-select question [group_ind](#)

r_group

<p>Who in the household is a member of %rosteritle%?</p> <p>I Leave it blank if none is a member. Ignore the error message.</p>	<p>MULTI-SELECT: LINKED</p> <p>SOURCE OF CATEGORIES: ROSTER R MEMBERS</p> <p>group_mem_hh</p>
<p>VARIABLE</p> <p>group_mem_hh.Length</p>	<p>LONG</p> <p>num_coopmem</p>
<p>If household has member, to what extent do you feel like they can influence decisions in the group %rosteritle%?</p> <p>E num_coopmem>0</p>	<p>SINGLE-SELECT</p> <p>group_member_influ</p> <p>01 <input type="radio"/> Not at all</p> <p>02 <input type="radio"/> Small extent</p> <p>03 <input type="radio"/> Medium extent</p> <p>04 <input type="radio"/> High extent</p>
<p>To what extent do you feel does the group influence your life or life in the community beyond the group activities %rosteritle%?</p>	<p>SINGLE-SELECT</p> <p>group_influ</p> <p>01 <input type="radio"/> Not at all</p> <p>02 <input type="radio"/> Small extent</p> <p>03 <input type="radio"/> Medium extent</p> <p>04 <input type="radio"/> High extent</p>

Approximately, how many of the members are females in %rosteritle%?	<div>SINGLE-SELECT<div>group_fem</div><div>01<div><div></div>None</div></div><div>02<div><div></div>Less than half</div></div><div>03<div><div></div>About half</div></div><div>04<div><div></div>More than half</div></div><div>05<div><div></div>All</div></div></div>
Approximately, how many of the members are less than 35 in %rosteritle%?	<div>SINGLE-SELECT<div>group_agegrp</div><div>01<div><div></div>None</div></div><div>02<div><div></div>Less than half</div></div><div>03<div><div></div>About half</div></div><div>04<div><div></div>More than half</div></div><div>05<div><div></div>All</div></div></div>
Approximately, how many of the members are of your ethnic group or have the same ethnic group as you in %rosteritle%?	<div>SINGLE-SELECT<div>group_eth</div><div>01<div><div></div>None</div></div><div>02<div><div></div>Less than half</div></div><div>03<div><div></div>About half</div></div><div>04<div><div></div>More than half</div></div><div>05<div><div></div>All</div></div></div>
What is the walking time to the place where the group usually meets? %rosteritle% (in minutes) <div>V1 self>0</div> <div>M1 Walking time to the group meeting location MUST be more than 0!</div>	<div>NUMERIC: DECIMAL<div>group_time</div><div></div></div>
In the last 30 days, how many times did the meetings are normally held in the group %rosteritle%? <div>V1 self <= 31</div> <div>M1 Number of days CANNOT be more than 31 days!</div>	<div>NUMERIC: INTEGER<div>group_freq</div><div></div></div>

SECTION 5: SOCIAL CAPITAL

TRAININGS

STATIC TEXT

Now we would like to talk about the household participation in different trainings held in the community.

In the last 5 years (from 2018-2023), have you or anyone in the household attended any training?	<div>SINGLE-SELECT<div>train_ind</div><div>01<div><div></div>Yes</div></div><div>00<div><div></div>No</div></div></div>
--------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------

<p>If yes, what are the trainings that you or anyone in the household attended? Please select all that apply.</p> <p>E train_ind==1</p>	<p>MULTI-SELECT train_type</p> <p>01 <input type="checkbox"/> Crop production</p> <p>02 <input type="checkbox"/> Livestock production</p> <p>03 <input type="checkbox"/> Human nutrition</p> <p>04 <input type="checkbox"/> Prosopis management</p> <p>05 <input type="checkbox"/> Charcoal production</p> <p>06 <input type="checkbox"/> Honeybee production</p> <p>07 <input type="checkbox"/> Brewing, wine/beer making</p> <p>08 <input type="checkbox"/> Entrepreneurship/ business training</p> <p>96 <input type="checkbox"/> Others, specify</p>
<p>Please specify other training that you have attended in the past 5 years.</p> <p>E train_type.Contains(96)</p>	<p>TEXT train_type_oth</p> <p>.....</p>

SECTION 5: SOCIAL CAPITAL / TRAININGS

Roster: TRAINING ATTENDED- %ROSTERTITLE%

generated by multi-select question [train_type](#)

r_train

<p>When was the training held? %rostartitle%?</p>	<p>MULTI-SELECT train_year</p> <p>01 <input type="checkbox"/> 2018</p> <p>02 <input type="checkbox"/> 2019</p> <p>03 <input type="checkbox"/> 2020</p> <p>04 <input type="checkbox"/> 2021</p> <p>05 <input type="checkbox"/> 2022</p> <p>06 <input type="checkbox"/> 2023</p>
<p>Who in the household attended the training %rostartitle%?</p>	<p>MULTI-SELECT: LINKED training_mem_hh SOURCE OF CATEGORIES: ROSTER R MEMBERS</p>
<p>What is the walking time to the place of the training %rostartitle%? (in minutes)</p> <p>V1 self>0</p> <p>M1 Walking time to the training location MUST be more than 0!</p>	<p>NUMERIC: DECIMAL train_time</p> <p>.....</p>
<p>Total duration or how long did the most recent training in the last 12 months %rostartitle% take place? (in days)</p> <p>V1 self>=1 && self<=365</p> <p>M1 Training duration MUST be more than 1 day. If it takes place only for a half day, consider it as 1 day. Consider just the number of days.</p>	<p>NUMERIC: INTEGER train_duration</p> <p>.....</p>

SECTION 6-7: GENDERED TIME USE AND DECISION-MAKING

section_6

[S6]START TIME	DATE: CURRENT TIME s6_start_time
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STATIC TEXT

E !IsAnswered(s6_start_time)

PLEASE RECORD THE START TIME BEFORE YOU START THE SECTION

STATIC TEXT

This section should be asked to BOTH MEN AND WOMEN of the household, preferably the head and his/her spouse (e.g. husband and wife). In case the other member is not present or available for interview, we ask for other male/female member of similar age who is involved in farm activities.

SECTION 6-7: GENDERED TIME USE AND DECISION-MAKING

Roster: TIME AND ROLE FOR - %ROSTERTITLE%

generated by list question numfamily

r_gender_roles

E available_member.Select(x=>x[0]).Contains(@rowcode)

RECORD THE TIME WHEN YOU START INTERVIEW WING %rostertitle%	DATE: CURRENT TIME start_time_gender_1
----------------------------------------------------------------	-------------------------------------------

SECTION 6-7: GENDERED TIME USE AND DECISION-MAKING / TIME AND ROLE FOR - %ROSTERTITLE%

TIME ALLOCATION

STATIC TEXT

Ask how they spent yesterday/ past 24 hours, starting with the time they wake up until they retire for the night. What were the major, specific activities and the simultaneous activities done during a certain time of the day? This includes everything, e.g. resting, eating, personal care, work inside and outside the home, caring for children, cooking, shopping, socializing, etc., even if it didn't take you much time. The area of interest is in agricultural activities such as farming, gardening, and livestock raising whether in the field or on the homestead, but equally important are other activities spent in e.g. caring for children, especially if it happened while you did some other activity (e.g., collecting water while carrying a child or cooking while watching after a sleeping child). Ask respondents to narrate their day themselves.

SECTION 6-7: GENDERED TIME USE AND DECISION-MAKING / TIME AND ROLE FOR - %ROSTERTITLE% / TIME ALLOCATION

Roster: TIME INTERVALS - %ROSTERTITLE%

generated by fixed list

f_time

- 01 3:00 - 3:30am
- 02 3:31 - 4:00am
- 03 4:01 - 4:30am
- 04 4:31 - 5:00am
- 05 5:01 - 5:30am
- 06 5:31 - 6:00am
- 07 6:01 - 6:30am
- 08 6:31 - 7:00am
- 09 7:01 - 7:30am
- 10 7:31 - 8:00am
- 11 8:01 - 8:30am
- 12 8:31 - 9:00am
- 13 9:01 - 9:30am

- 14 9:31 - 10:00am
 - 15 10:01 -10:30am
 - 16 10:31 - 11:00am
 - 17 11:01 - 11:30am
 - 18 11:31 - 12:00pm
 - 19 12:01 - 12:30pm
 - 20 12:31 - 1:00pm
 - 21 1:01 - 1:30pm
 - 22 1:31 - 2:00pm
 - 23 2:01 - 2:30pm
 - 24 2:31 - 3:00pm
 - 25 3:00 - 3:30pm
 - 26 3:31 - 4:00pm
 - 27 4:01 - 4:30pm
 - 28 4:31 - 5:00pm
 - 29 5:01 - 5:30pm
 - 30 5:31 - 6:00pm
 - 31 6:01 - 6:30pm
 - 32 6:31 - 7:00pm
 - 33 7:01 - 7:30pm
 - 34 7:31 - 8:00pm
 - 35 8:01 - 8:30pm
 - 36 8:31 - 9:00pm
 - 37 9:01 - 9:30pm
 - 38 9:31 - 10:00pm
 - 39 10:01 - 10:30pm
 - 40 10:31 - 11:00pm
 - 41 11:01 - 11:30pm
 - 42 11:31 - 12:00am
 - 43 12:01 - 12:30am
 - 44 12:31 - 1:00am
 - 45 1:01 - 1:30am
 - 46 1:31 - 2:00am
 - 47 2:01 - 2:30am
 - 48 2:31 - 3:00am
-

What primary activity did you perform between %rostertitle%?

SINGLE-SELECTf_prim

01

☐ Sleeping, napping, resting

02

☐ Eating and drinking

03

☐ Personal care

04

☐ Leisure (e.g. watching TV, listening radio, reading, exercising, hobbies)

05

☐ Attending school, training or studying, school meetings

06

☐ Work as employed

07

☐ Own business work

08

☐ Land preparation, tilling, prosopis removal

09

☐ Weeding and pest/disease management

10

☐ Harvesting

11

☐ Drying, processing farm product, and post-harvest tasks

12

☐ Large livestock caring, grazing (e.g. cattle, camel)

13

☐ Small livestock (e.g. sheep, goat, pig) caring, grazing

14

☐ Poultry (e.g. chicken, duck, eggs, turkey) caring, grazing

15

☐ Fishing, fishpond culture

16

☐ Beekeeping-related activities

[And 21 other symbols \[62\]](#)

Please specify other primary activity performed between %rostertitle%?

E f_prim==96

TEXTf_prim_o

Did you do any secondary activity between %rosterstertitle%?

SINGLE-SELECTf_sec

01

☐ Yes

00

☐ No

<p>What secondary activity did you perform between %rosteritle%?</p> <p>E f_sec==1</p>	<p>SINGLE-SELECT f_seca</p> <p>01 <input type="radio"/> Sleeping, napping, resting</p> <p>02 <input type="radio"/> Eating and drinking</p> <p>03 <input type="radio"/> Personal care</p> <p>04 <input type="radio"/> Leisure (e.g. watching TV, listening radio, reading, exercising, hobbies)</p> <p>05 <input type="radio"/> Attending school, training or studying, school meetings</p> <p>06 <input type="radio"/> Work as employed</p> <p>07 <input type="radio"/> Own business work</p> <p>08 <input type="radio"/> Land preparation, tilling, prosopis removal</p> <p>09 <input type="radio"/> Weeding and pest/disease management</p> <p>10 <input type="radio"/> Harvesting</p> <p>11 <input type="radio"/> Drying, processing farm product, and post-harvest tasks</p> <p>12 <input type="radio"/> Large livestock caring, grazing (e.g. cattle, camel)</p> <p>13 <input type="radio"/> Small livestock (e.g. sheep, goat, pig) caring, grazing</p> <p>14 <input type="radio"/> Poultry (e.g. chicken, duck, eggs, turkey) caring, grazing</p> <p>15 <input type="radio"/> Fishing, fishpond culture</p> <p>16 <input type="radio"/> Beekeeping-related activities</p> <p>And 21 other symbols [62]</p>
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<p>SECTION 6-7: GENDERED TIME USE AND DECISION-MAKING / TIME AND ROLE FOR - %ROSTERTITLE%</p> <p>HOUSEHOLD DECISION MAKING</p> <p>E hh_size>1</p>	
<p>STATIC TEXT</p> <p><i>Ask who makes the decisions about each of the following activity. You can phrase the question like this: "Who in the household makes decisions about [activity]?" Record in order of importance. Please mention FIRST the member who makes the most primary decision.</i></p>	
<p>Who makes the decision to Crop farming—what crop to grow, when and how to till and manage the crops (weeding, fertilizer, etc.)</p> <p>E crop_num>0</p>	<p>MULTI-SELECT: ORDERED, LINKED weai_1 SOURCE OF CATEGORIES: ROSTER R MEMBERS</p>
<p>Who makes the decision to Marketing of crop farm produce (when/whom/where to sell, who negotiates the price)?</p> <p>E crop_num>0</p>	<p>MULTI-SELECT: ORDERED, LINKED weai_2 SOURCE OF CATEGORIES: ROSTER R MEMBERS</p>

<p>Who makes the decision on how any cash earned from crop farming is spent?</p> <p>E crop_num>0</p>	<p>MULTI-SELECT: ORDERED, LINKED SOURCE OF CATEGORIES: ROSTER R MEMBERS</p> <p>weai_3</p>
<p>Who makes the decision to how much money to spend on farm inputs?</p> <p>E crop_num>0</p>	<p>MULTI-SELECT: ORDERED, LINKED SOURCE OF CATEGORIES: ROSTER R MEMBERS</p> <p>weai_4</p>
<p>Who makes the decision if the household need to consult an agricultural technician, extension agent, or other people who are experts</p>	<p>MULTI-SELECT: ORDERED, LINKED SOURCE OF CATEGORIES: ROSTER R MEMBERS</p> <p>weai_5</p>
<p>Who makes the decision to Purchase and sale of livestock like cattle and goats (e.g. which to buy, where/when to sell, etc.)</p> <p>E any_livestock==1</p>	<p>MULTI-SELECT: ORDERED, LINKED SOURCE OF CATEGORIES: ROSTER R MEMBERS</p> <p>weai_6</p>
<p>Who makes the decision to How any cash earned from the sale of livestock or livestock products like milk and eggs is spent?</p> <p>E any_livestock==1</p>	<p>MULTI-SELECT: ORDERED, LINKED SOURCE OF CATEGORIES: ROSTER R MEMBERS</p> <p>weai_7</p>
<p>Who makes the decision on the use of large livestock (cattle, donkey)</p> <p>E any_livestock==1</p>	<p>MULTI-SELECT: ORDERED, LINKED SOURCE OF CATEGORIES: ROSTER R MEMBERS</p> <p>weai_8</p>
<p>Who makes the decision on the use of small livestock (goats, sheep)</p> <p>E any_livestock==1</p>	<p>MULTI-SELECT: ORDERED, LINKED SOURCE OF CATEGORIES: ROSTER R MEMBERS</p> <p>weai_9</p>
<p>Who makes the decision on the use of poultry</p> <p>E any_livestock==1</p>	<p>MULTI-SELECT: ORDERED, LINKED SOURCE OF CATEGORIES: ROSTER R MEMBERS</p> <p>weai_22</p>
<p>Who makes the decision on the types of non-agricultural activities your household involves it self in, such as small business, casual and wage labour, and providing services to others</p>	<p>MULTI-SELECT: ORDERED, LINKED SOURCE OF CATEGORIES: ROSTER R MEMBERS</p> <p>weai_10</p>
<p>Who makes the decision on how any cash earned from wage work or non-farm work is spent</p>	<p>MULTI-SELECT: ORDERED, LINKED SOURCE OF CATEGORIES: ROSTER R MEMBERS</p> <p>weai_11</p>
<p>Who makes the decision on how much money to spend on food?</p>	<p>MULTI-SELECT: ORDERED, LINKED SOURCE OF CATEGORIES: ROSTER R MEMBERS</p> <p>weai_12</p>
<p>Who makes the decision on how much money to spend on capital investments (machinery, water pumps, etc.) for agriculture?</p>	<p>MULTI-SELECT: ORDERED, LINKED SOURCE OF CATEGORIES: ROSTER R MEMBERS</p> <p>weai_13</p>
<p>Who makes the decision on purchase and sale of durable goods (e.g., Purchase and sale of TVs, radios, fridge)</p>	<p>MULTI-SELECT: ORDERED, LINKED SOURCE OF CATEGORIES: ROSTER R MEMBERS</p> <p>weai_14</p>
<p>Who makes the decision on purchase and sale of land and houses?</p>	<p>MULTI-SELECT: ORDERED, LINKED SOURCE OF CATEGORIES: ROSTER R MEMBERS</p> <p>weai_15</p>

Who makes the decision on expenditure on children's education	MULTI-SELECT: ORDERED, LINKED SOURCE OF CATEGORIES: ROSTER R MEMBERS	weai_16
Who makes the decision on how to allocate remittances	MULTI-SELECT: ORDERED, LINKED SOURCE OF CATEGORIES: ROSTER R MEMBERS	weai_17
Who makes the decision on whether to borrow money and how much to borrow?	MULTI-SELECT: ORDERED, LINKED SOURCE OF CATEGORIES: ROSTER R MEMBERS	weai_18
Who makes the decision on whether they attend a training or seminar	MULTI-SELECT: ORDERED, LINKED SOURCE OF CATEGORIES: ROSTER R MEMBERS	weai_19
Who makes the decision on if they will adopt or use the new techniques/knowledge they have acquired or learned	MULTI-SELECT: ORDERED, LINKED SOURCE OF CATEGORIES: ROSTER R MEMBERS	weai_20
Who makes the decision on use of land?	MULTI-SELECT: ORDERED, LINKED SOURCE OF CATEGORIES: ROSTER R MEMBERS	weai_21
RECORD THE TIME WHEN YOU FINISH INTERVIEWING %rostartitle%	DATE: CURRENT TIME	end_time_gender_1
[S6]END TIME	DATE: CURRENT TIME	s6_end_time

STATIC TEXT

E !IsAnswered(s6_end_time)

PLEASE RECORD THE END TIME BEFORE YOU START THE NEXT SECTION

STATIC TEXT

E NumberUnansweredQuestions(section_6)>0

ATTENTION! YOU HAVE %unanswered_sec_6% UNANSWERED QUESTIONS REMAINING IN THIS SECTION!

VARIABLE NumberUnansweredQuestions(section_6)	DOUBLE	unanswered_sec_6
VARIABLE Math.Round((s6_end_time - s6_start_time).value.TotalSeconds / 60,2)	DOUBLE	s6_duration

SECTION 8: ECOLOGICAL SHOCKS

section_8

E country==1

[S8]START TIME	DATE: CURRENT TIME s8_start_time
----------------	-------------------------------------

STATIC TEXT

E !IsAnswered(s8_start_time)

PLEASE RECORD THE START TIME BEFORE YOU START THE SECTION

Are your fields or pasture infested by any of the following pests and others you may know?	MULTI-SELECT: YES/NO pest_infest
V1 self.Missing.Length==0	01 <input type="checkbox"/> / <input type="checkbox"/> Fall army worm armyworm
M1 You have not answered all the questions. Please check.	02 <input type="checkbox"/> / <input type="checkbox"/> Pathenium Parthenium
	03 <input type="checkbox"/> / <input type="checkbox"/> Prosopis prospis
	96 <input type="checkbox"/> / <input type="checkbox"/> Others ➡ Specify

Please specify other invasive species affecting your fields or pasture.	TEXT pest_infest_oth
-------------------------------------------------------------------------	-------------------------

E pest_infest.Yes.Contains(96)

SECTION 8: ECOLOGICAL SHOCKS

Roster: INVASIVE SPECIES %ROSTERTITLE%
generated by multi-select question pest_infest

r_invasive

How severe is the infestation from %rostertitle%?	SINGLE-SELECT pest_severe
	01 <input type="radio"/> Not severe infestation - a small number of pests present
	02 <input type="radio"/> Moderate infestation - moderate number of pests present
	03 <input type="radio"/> Severe infestation - large number of pests present
	04 <input type="radio"/> Extremely infestation - overwhelming number of pests present

Rate the damage caused by the %rostertitle% in your fields and/or pasture	SINGLE-SELECT pest_rate
	01 <input type="radio"/> Low (<25% plants damaged)
	02 <input type="radio"/> Average (25-50% plants damaged)
	03 <input type="radio"/> High (50-75% plants damaged)
	04 <input type="radio"/> Very high (>75% plants damaged)

What are the various management techniques you use in controlling the %rosteritle%?

I Please mention first what you most often use. [multi-select ordered]

- MULTI-SELECT: ORDEREDeco_mgmt
- 01

☐ Use of natural enemies/ sug
ars and soups that attracts
natural enemies
- 02

☐ Early planting, resistant vari
eties
- 03

☐ Intercropping
- 04

☐ Crop rotation
- 05

☐ Weeding
- 06

☐ Use of pesticides or chemic
al agents
- 07

☐ Crop diversification
- 08

☐ Intensive cultivation
- 09

☐ Handpicking and crushing e
gg masses/ catterpillars
- 10

☐ Sand and ash
- 11

☐ Cutting the trees
- 12

☐ Burning
- 13

☐ Uprooting seedlings and tre
es
- 14

☐ Pruning
- 15

☐ Do nothing
- 96

☐ Others, specify

SECTION 8: ECOLOGICAL SHOCKS / INVASIVE SPECIES %ROSTERTITLE%
Roster: CONTROL STRATEGIES- %ROSTERTITLE%
generated by multi-select question eco_mgmt

r_control_strat

Please specify Other management techniques

E eco_mgmt.Contains(96)

TEXTeco_mgmt_oth

.....

How much do you spend on average using the management practice to control the %rosteritle%? Enter 0 if none.

NUMERIC: INTEGERcost_management

How effective do you think is your control strategy to manage the invasive species?

- SINGLE-SELECThow_effective
- 01

☐ Highly effective
- 02

☐ Moderately effective
- 03

☐ Slightly effective
- 04

☐ Not at all effective

What do you think is the most effective way to manage the %rosteritle%?

I Record in order of importance. Please mention first the most effective control strategy for you. (multi-select ordered)

MULTI-SELECT

most_effective

01

☐ Use of natural enemies/ sug
ars and soups that attracts
natural enemies

02

☐ Early planting, resistant vari
eties

03

☐ Intercropping

04

☐ Crop rotation

05

☐ Weeding

06

☐ Use of pesticides or chemic
al agents

07

☐ Crop diversification

08

☐ Intensive cultivation

09

☐ Handpicking and crushing e
gg masses/ catterpillars

10

☐ Sand and ash

11

☐ Cutting the trees

12

☐ Burning

13

☐ Uprooting seedlings and tre
es

14

☐ Pruning

15

☐ Do nothing

96

☐ Others, specify

Please specify Other most effective manageme
nt techniques.

E most_effective.Contains(96)

TEXT

most_effective_oth

<p>Why can't you practice or adopt the more effective control strategy for %rostertitle%?</p> <p>I Record in order of importance. Please mention first the most effective control strategy for you. (multi-select ordered)</p>	<p>MULTI-SELECT: ORDERED why_not_control</p> <p>01 <input type="checkbox"/> Lack of resources or funding</p> <p>02 <input type="checkbox"/> Limited knowledge or understanding of the strategy</p> <p>03 <input type="checkbox"/> Inability to access the necessary equipment or materials</p> <p>04 <input type="checkbox"/> Difficulty in implementing the strategy in a specific location or environment</p> <p>05 <input type="checkbox"/> Resistance or opposition from neighbours</p> <p>06 <input type="checkbox"/> Legal or regulatory barriers that prohibit the use of certain pest control methods</p> <p>07 <input type="checkbox"/> Labour intensive and time consuming</p> <p>08 <input type="checkbox"/> May have negative effect on health</p> <p>96 <input type="checkbox"/> Others, specify</p> <p>99 <input type="checkbox"/> Does not apply, HH already adopting the most effective for them</p>
<p>Please specify Other reasons why you don't practice or adopt the control strategy.</p> <p>E why_not_control.Contains(96)</p>	<p>TEXT why_not_control_oth</p> <p>.....</p>
<p>Who in the household is mainly involved in controlling the %rostertitle%?</p>	<p>SINGLE-SELECT: LINKED who_control SOURCE OF CATEGORIES: ROSTER R MEMBERS</p>
<p>How often do you control the %rostertitle%?</p>	<p>SINGLE-SELECT control_freq</p> <p>01 <input type="radio"/> Only few days at the beginning of cropping season (less than a month)</p> <p>02 <input type="radio"/> 1-2 months (beginning and few times in the middle of cropping season)</p> <p>03 <input type="radio"/> Every month of the cropping season</p> <p>96 <input type="radio"/> Others, specify</p>
<p>Please specify other frequency of controlling the %rostertitle%.</p> <p>E control_freq==96</p>	<p>TEXT control_freq_oth</p> <p>.....</p>

<p>How many days in one month do you normally have to control pest %rosteritle%?</p> <p>V1 self <= 30 && self>0</p> <p>M1 Answer MUST be less than 30 days in a month BUT more than 0!</p>	<p>NUMERIC: INTEGER</p> <p>days_control_pest</p> <p>-----</p>
<p>Do you find prosopis in a 10-m radius space around your household?</p>	<p>SINGLE-SELECT</p> <p>prosopis_hh</p> <p>01 <input type="radio"/> Yes</p> <p>00 <input type="radio"/> No</p>
<p>In 2019, are your fields or pasture infested by prosopis?</p>	<p>SINGLE-SELECT</p> <p>pros_infest_2019</p> <p>01 <input type="radio"/> Yes</p> <p>00 <input type="radio"/> No</p>
<p>[S8]END TIME</p>	<p>DATE: CURRENT TIME</p> <p>s8_end_time</p> <p>-----</p>
<p>STATIC TEXT</p> <p>E !IsAnswered(s8_end_time)</p> <p>PLEASE RECORD THE END TIME BEFORE YOU START THE NEXT SECTION</p>	
<p>STATIC TEXT</p> <p>E NumberUnansweredQuestions(section_8)>0</p> <p>ATTENTION! YOU HAVE %unanswered_sec_8% UNANSWERED QUESTIONS REMAINING IN THIS SECTION!</p>	
<p>VARIABLE</p> <p>NumberUnansweredQuestions(section_8)</p>	<p>DOUBLE</p> <p>unanswered_sec_8</p>
<p>VARIABLE</p> <p>Math.Round((s8_end_time - s8_start_time).Value.TotalSeconds / 60,2)</p>	<p>DOUBLE</p> <p>s8_duration</p>

EXPERIMENT

STATIC TEXT

General information

Enumerator: In treatment group 1 (T1), ONLY the HEAD of the household should watch the video and play the game. In treatment group 2 (T2), BOTH HEAD AND SPOUSE (e.g., husband and wife) should watch the video and play the game. In the control group, NO VIDEO is shown, and ONLY the HEAD should play the game.

T1 ONLY HH HEAD watches and plays game:
READ: We will now move on to the second part of the survey, where we will carry out TWO activities together. First, we will watch a short video and then we will ask you to make a real decision about Prosopis management in your community in a decision-making task. We will also ask you a few more questions about your aspirations, future-making behavior, and perceptions about Prosopis.

T2 BOTH HEAD AND SPOUSE watch and play game:
READ: We will now move on to the second part of the survey, where we will carry out TWO activities together. First, we will watch a short video and then we will ask you to make a real decision about Prosopis management in your community in a decision-making task. We will also ask you a few more questions about your aspirations, future-making behavior, and perceptions about Prosopis.

Control group NO VIDEO and ONLY HH HEAD plays game:
READ: We will now move on to the second part of the survey, where we will carry out ONE activity together. First, we will ask you to make a real decision about Prosopis management in your community in a decision-making task and then ask you a few more questions about your aspirations, future-making behavior, and perceptions about Prosopis.

EXPERIMENT

T1 ONLY HH HEAD WATCHES VIDEO AND PLAYS PUBLIC GOODS GAME

E experiment_group_ind==1

Who will watch the video and play game?

MULTI-SELECT: LINKED
SOURCE OF CATEGORIES: ROSTER [R_MEMBERS](#)

t1_resp

I <u>Enumerator</u>: In treatment group 1 (T1), ONLY the HEAD of the household should watch the video. Hence, only one member MUST watch the video. In case the member is not present or available for in [And 320 other symbols \[6\]](#)

F age>=18

E experiment_group_ind==1

V1 self.Length==1

M1 In treatment 1 HH, only one member preferably the HH head should watch the video. Hence, only one member MUST watch the video.

STATIC TEXT

Enumerator: Introduce the video and get the video ready on the tablet to play.

T1 ONLY HH HEAD watches video:
READ: The video that you will watch on the tablet shows the story of two communities in Baringo where Prosopis has invaded the area. In the video, members of both communities explain the work they do together and how managing Prosopis will protect their future.

Enumerator: Show the video on the tablet.

Enumerator: At the end of the video, ask the respondent for his/her opinion on the video. Allow the respondent to give a brief opinion. If the respondent is hesitant to respond, ask more direct questions like do you like the video? Why?

EXPERIMENT / T1 ONLY HH HEAD WATCHES VIDEO AND PLAYS PUBLIC GOODS GAME

Roster: COLLECTIVE ACTION VIDEO T1- %ROSTERTITLE%

generated by list question numfamily

r_videot1

E t1_resp.Select(x=>x[0]).Contains(@rowcode)

STATIC TEXT

For each of the following statements, on a scale of 1 (Strongly disagree) to 5 (Strongly agree), how much you agree with the statements.



1. I like the video.	<div>SINGLE-SELECT<div>video_liket1</div><div>01<div><input type="radio"/></div>Strongly disagree</div><div>02<div><input type="radio"/></div>Disagree</div><div>03<div><input type="radio"/></div>Indifferent (neither nor)</div><div>04<div><input type="radio"/></div>Agree</div><div>05<div><input type="radio"/></div>Strongly agree</div></div>
2. The characters in the video are similar to me.	<div>SINGLE-SELECT<div>video_characterst1</div><div>01<div><input type="radio"/></div>Strongly disagree</div><div>02<div><input type="radio"/></div>Disagree</div><div>03<div><input type="radio"/></div>Indifferent (neither nor)</div><div>04<div><input type="radio"/></div>Agree</div><div>05<div><input type="radio"/></div>Strongly agree</div></div>
3. My village can be as successful in the future as the villages in the video.	<div>SINGLE-SELECT<div>video_villagesuccesst1</div><div>01<div><input type="radio"/></div>Strongly disagree</div><div>02<div><input type="radio"/></div>Disagree</div><div>03<div><input type="radio"/></div>Indifferent (neither nor)</div><div>04<div><input type="radio"/></div>Agree</div><div>05<div><input type="radio"/></div>Strongly agree</div></div>

STATIC TEXT

Now let's move to the game.

In treatment group 1 (T1), ONLY the HEAD of the household should play the game.

T1 ONLY HH HEAD plays game:

Enumerator: Have 1 envelope with 300 KES (in the form of 10-KES vouchers) and 1 receipt form (to be signed by the head) ready for the game.

STATIC TEXT

[1] Instructions for the experiment: Experimenter explains to respondent

1. Prosopis is often considered as a common property resource because it grows on common grazing areas. In this game, you and 14 of your neighbors, chosen at random, will decide on contributions to Prosopis management in your village. Depending on the local invasion level, management will focus on prevention, early detection and rapid response, or control. You will not know who the neighbors are who are also playing this game. We will give you and your neighbors money in the form of vouchers and ask you to contribute to Prosopis management from that money. Contributions will be used for a single intervention (e.g., clearing, sowing, and follow-up weeding of common grazing areas) and will be available only once. The decisions that you and your neighbors make determine the budget available for Prosopis management in your village. We respect the decision of every villager who participates in this game. We will

not evaluate whether your decision is right or wrong.

2. At the beginning you will be given 300 KES in the form of 10-KES vouchers (experimenter places the envelope (with the personal code) containing the vouchers in front of the respondent).

3. You have to decide how much of these 300 KES you want to contribute to a group pot for *Prosopis* management in your village and how much you want to keep. You must leave the amount (i.e., the number of vouchers) you want to contribute to the group pot in the envelope, and take out the amount (i.e., the number of vouchers) you want to keep and put it in your pocket. Then you have to close the envelope and return it to me.

4. You can contribute all or nothing to the group pot, or you can contribute part of it and keep part. Whether and how you divide it is up to you.

5. Your neighbors who participate in this game will receive the same amount and face the same choice. None of you will know each other's contributions.

6. The amount that you and your neighbors contribute to the group pot is multiplied by 2 by us.

7. The total amount of contributions from you and your neighbors will be announced anonymously a few days later, after we have completed the games in your village, at an organized meeting with you, your neighbors, and the village committee. During the meeting, the envelopes will be opened by our research assistant and the money will be counted and publicly announced. The group's contribution is multiplied by 2. The money is immediately sent to the village treasurer via M-pesa, who is responsible for the budget that will later be used for *Prosopis* management in your village. You will receive the equivalent value of the vouchers kept by M-pesa transfer.

STATIC TEXT

[2] Experiment explanation example: Experimenter explains to respondent

1. Let's consider some examples:

a. EXAMPLE 1: If you, for instance, decide to contribute 100 KES to the group pot for *Prosopis* management in your village, what do you have to do? [ANSWER OF THE RESPONDENT: I have to leave 100 KES (= 10 x 10-KES vouchers) in the envelope. I close the envelope and return it to you.]

b. And what happens with the remaining 200 KES? [ANSWER OF THE RESPONDENT: I can keep it. I will take out 200 KES (= 20 x 10-KES vouchers) from the envelope and put it in my pocket.] (Please let the respondent demonstrate this.)

c. EXAMPLE 2: And if you, for instance, decide to contribute 300 KES to the group pot, what do you have to do? [ANSWER OF THE RESPONDENT: I have to leave the entire 300 KES (all vouchers) in the envelope.]

d. EXAMPLE 3: And if you, for instance, decide to contribute 0 KES to the group pot, what do you have to do? [ANSWER OF THE RESPONDENT: I take the entire 300 KES (all vouchers) out of the envelope and put it in my pocket.]

e. EXAMPLE 4: If you, for instance, decide to contribute 150 KES to the group pot for *Prosopis* management in your village, what do you have to do? [ANSWER OF THE RESPONDENT: I have to leave 150 KES (= 15 x 10-KES vouchers) in the envelope.]

f. How many people will participate in this game? [ANSWER OF THE RESPONDENT: I will play the game with 14 of my neighbors from my village.]

g. Will you know who the other people in the game are? [ANSWER OF THE RESPONDENT: No, I will not know who they are.]

h. Will you know how much your neighbors contribute to the group pot? [ANSWER OF THE RESPONDENT: No, I will not know how much they contribute.]

i. What happens to the money that you and your neighbors contribute to the group pot? [ANSWER OF THE RESPONDENT: The money we contribute to the group pot will be multiplied by 2 by you.]

j. When will you know about the budget available for *Prosopis* management in your village? [ANSWER OF THE RESPONDENT: Only in a few days. The total amount of contributions will be announced at a meeting after my neighbors are also done with this game.]

k. What will happen during this meeting? [ANSWER OF THE RESPONDENT: The envelopes will be opened, the money will be counted and publicly announced. Then the group contribution is multiplied by 2. The money will be sent to the village treasurer via M-pesa, who is responsible for the budget that will later be used for *Prosopis* management in my village.]

2. Is this clear?

3. To make sure you understand the game, could you please repeat the rules of the game?

STATIC TEXT

[3] Instructions to the experimenter

1. Examples are repeated until the experimenter feels confident about the respondent's understanding.
2. Once the experimenter is satisfied with the respondent's understanding, the actual decision is made.

STATIC TEXT

[4] Instructions for the experiment: Experimenter explains to respondent

1. Please take your decision now.
2. Please leave the amount (KES) (i.e., the number of vouchers) you want to contribute to the group pot in the envelope and take out the amount (KES) (i.e., the number of vouchers) you want to keep and put it in your pocket. Once you are ready, please close the envelope and return it to me. We will keep your contribution decision anonymous. This means that non one in the village will know about your contribution.
3. Take as much time as you need for your decision. In the meantime, I will turn around, so that I don't disturb you. Just call me when you are done.
4. Do you have any questions?

STATIC TEXT

[5] Instructions to the experimenter

1. The experimenter collects the closed envelope from the respondent.
2. A receipt form must be signed by the respondent.

Experimental material

1 envelope (personal code) with 300 KES in the form of 10-KES vouchers

Receipt form

EXPERIMENT / T1 ONLY HH HEAD WATCHES VIDEO AND PLAYS PUBLIC GOODS GAME

Roster: PUBLIC GOODS GAME T1- %ROSTERTITLE%

generated by list question `numfamily`

pgg_t1

E t1_resp.Select(x=>x[0]).Contains(@rowcode)

Did you make sure that the respondent provides an MPESA number (if he/she can provide) where to send the money?	SINGLE-SELECT 01 <input type="radio"/> Yes 00 <input type="radio"/> No	pgg_mpesa_t1
Did you make sure that the respondent signed the payment form?	SINGLE-SELECT 01 <input type="radio"/> Yes 00 <input type="radio"/> No	pgg_sign_t1

EXPERIMENT

T2 BOTH HH HEAD AND SPOUSE WATCH VIDEO AND PLAY PUBLIC GOODS GAME

E experiment_group_ind==2

Who will watch the video and play game?

MULTI-SELECT: LINKED
SOURCE OF CATEGORIES: ROSTER [R_MEMBERS](#)

t2_resp

- I <u>Enumerator</u>: In treatment group 2 (T2), BOTH HEAD AND SPOUSE (e.g., husband and wife) should watch the video. Hence, two members both men and women MUST watch the video. In case the member is n [And 350 other symbols \[7\]](#)
- F age>=18
- E experiment_group_ind==2
- V1 self.Length==2
- M1 In treatment 2 HH, two member preferably the HH head and his/her spouse should watch the video. Hence, two members both men and women MUST watch video.

STATIC TEXT

Enumerator: Introduce the video and get the video ready on the tablet to play.

T2 BOTH HEAD AND SPOUSE watch the video:

READ: The video that you will watch on the tablet shows the story of two communities in Baringo where Prosopis has invaded the area. In the video, members of both communities explain the work they do together and how managing Prosopis will protect their future.

Enumerator: Show the video on the tablet.

Enumerator: At the end of the video, ask the respondent for his/her opinion on the video. Allow the respondent to give a brief opinion. If the respondent is hesitant to respond, ask more direct questions like do you like the video? Why?

EXPERIMENT / T2 BOTH HH HEAD AND SPOUSE WATCH VIDEO AND PLAY PUBLIC GOODS GAME

Roster: COLLECTIVE ACTION VIDEO T2- %ROSTERTITLE%

generated by list question [numfamily](#)

r_t2

E t2_resp.Select(x=>x[0]).Contains(@rowcode)

What do you think about the video? Please state your opinion. Positive and negative opinions are welcome.

TEXT

video_opinionot2

STATIC TEXT

For each of the following statements, on a scale of 1 (Strongly disagree) to 5 (Strongly agree), how much you agree with the statements.



1. I like the video.

SINGLE-SELECT

video_liket2

- 01 ☐ Strongly disagree
- 02 ☐ Disagree
- 03 ☐ Indifferent (neither nor)
- 04 ☐ Agree
- 05 ☐ Strongly agree

2. The characters in the video are similar to me.	<div>SINGLE-SELECT video_characterst2</div> <div>01 <input type="radio"/> Strongly disagree</div> <div>02 <input type="radio"/> Disagree</div> <div>03 <input type="radio"/> Indifferent (neither nor)</div> <div>04 <input type="radio"/> Agree</div> <div>05 <input type="radio"/> Strongly agree</div>
3. My village can be as successful in the future as the villages in the video.	<div>SINGLE-SELECT video_villagesuccesst2</div> <div>01 <input type="radio"/> Strongly disagree</div> <div>02 <input type="radio"/> Disagree</div> <div>03 <input type="radio"/> Indifferent (neither nor)</div> <div>04 <input type="radio"/> Agree</div> <div>05 <input type="radio"/> Strongly agree</div>

STATIC TEXT

Now let's move to the game.

In treatment group 2 (T2), BOTH HEAD AND SPOUSE (e.g., husband and wife) should play the game.

T2 BOTH HEAD AND SPOUSE play game:

Enumerator: Have 2 envelopes with 300 KES each (in the form of 10-KES vouchers) and 2 receipt forms (to be signed by the head and spouse) ready for the game.

STATIC TEXT

[1] Instructions for the experiment: Experimenter explains to respondent

1. Prosopis is often considered as a common property resource because it grows on common grazing areas. In this game, you and 14 of your neighbors, chosen at random, will decide on contributions to Prosopis management in your village. Depending on the local invasion level, management will focus on prevention, early detection and rapid response, or control. You will not know who the neighbors are who are also playing this game. We will give you and your neighbors money in the form of vouchers and ask you to contribute to Prosopis management from that money. Contributions will be used for a single intervention (e.g., clearing, sowing, and follow-up weeding of common grazing areas) and will be available only once. The decisions that you and your neighbors make determine the budget available for Prosopis management in your village. We respect the decision of every villager who participates in this game. We will not evaluate whether your decision is right or wrong.

2. At the beginning you will be given 300 KES in the form of 10-KES vouchers (experimenter places the envelope (with the personal code) containing the vouchers in front of the respondent).

3. You have to decide how much of these 300 KES you want to contribute to a group pot for Prosopis management in your village and how much you want to keep. You must leave the amount (i.e., the number of vouchers) you want to contribute to the group pot in the envelope, and take out the amount (i.e., the number of vouchers) you want to keep and put it in your pocket. Then you have to close the envelope and return it to me.

4. You can contribute all or nothing to the group pot, or you can contribute part of it and keep part. Whether and how you divide it is up to you.

5. Your neighbors who participate in this game will receive the same amount and face the same choice. None of you will know each other's contributions.

6. The amount that you and your neighbors contribute to the group pot is multiplied by 2 by us.

7. The total amount of contributions from you and your neighbors will be announced anonymously a few days later, after we have completed the games in your village, at an organized meeting with you, your neighbors, and the village committee. During the meeting, the envelopes will be opened by our research assistant and the money will be counted and publicly announced. The group's contribution is multiplied by 2. The money is immediately sent to the village treasurer via M-pesa, who is responsible for the budget that will later be used for Prosopis management in your village. You will receive the equivalent value of the vouchers kept by M-pesa transfer.

STATIC TEXT

[2] Experiment explanation example: Experimenter explains to respondent

1. Let's consider some examples:

- a. EXAMPLE 1: If you, for instance, decide to contribute 100 KES to the group pot for Prosopis management in your village, what do you have to do? [ANSWER OF THE RESPONDENT: I have to leave 100 KES (= 10 x 10-KES vouchers) in the envelope. I close the envelope and return it to you.]
- b. And what happens with the remaining 200 KES? [ANSWER OF THE RESPONDENT: I can keep it. I will take out 200 KES (= 20 x 10-KES vouchers) from the envelope and put it in my pocket.] (Please let the respondent demonstrate this.)
- c. EXAMPLE 2: And if you, for instance, decide to contribute 300 KES to the group pot, what do you have to do? [ANSWER OF THE RESPONDENT: I have to leave the entire 300 KES (all vouchers) in the envelope.]
- d. EXAMPLE 3: And if you, for instance, decide to contribute 0 KES to the group pot, what do you have to do? [ANSWER OF THE RESPONDENT: I take the entire 300 KES (all vouchers) out of the envelope and put it in my pocket.]
- e. EXAMPLE 4: If you, for instance, decide to contribute 150 KES to the group pot for Prosopis management in your village, what do you have to do? [ANSWER OF THE RESPONDENT: I have to leave 150 KES (= 15 x 10-KES vouchers) in the envelope.]
- f. How many people will participate in this game? [ANSWER OF THE RESPONDENT: I will play the game with 14 of my neighbors from my village.]
- g. Will you know who the other people in the game are? [ANSWER OF THE RESPONDENT: No, I will not know who they are.]
- h. Will you know how much your neighbors contribute to the group pot? [ANSWER OF THE RESPONDENT: No, I will not know how much they contribute.]
- i. What happens to the money that you and your neighbors contribute to the group pot? [ANSWER OF THE RESPONDENT: The money we contribute to the group pot will be multiplied by 2 by you.]
- j. When will you know about the budget available for Prosopis management in your village? [ANSWER OF THE RESPONDENT: Only in a few days. The total amount of contributions will be announced at a meeting after my neighbors are also done with this game.]
- k. What will happen during this meeting? [ANSWER OF THE RESPONDENT: The envelopes will be opened, the money will be counted and publicly announced. Then the group contribution is multiplied by 2. The money will be sent to the village treasurer via M-pesa, who is responsible for the budget that will later be used for Prosopis management in my village.]

2. Is this clear?

3. To make sure you understand the game, could you please repeat the rules of the game?

STATIC TEXT

[3] Instructions to the experimenter

1. Examples are repeated until the experimenter feels confident about the respondent's understanding.
 2. Once the experimenter is satisfied with the respondent's understanding, the actual decision is made.
-

STATIC TEXT

[4] Instructions for the experiment: Experimenter explains to respondent

1. Please take your decision now.
2. Please leave the amount (KES) (i.e., the number of vouchers) you want to contribute to the group pot in the envelope and take out the amount (KES) (i.e., the number of vouchers) you want to keep and put it in your pocket. Once you are ready, please close the envelope and return it to me. We will keep your contribution decision anonymous. This means that non one in the village will know about your contribution.
3. Take as much time as you need for your decision. In the meantime, I will turn around, so that I don't disturb you. Just call me when you are done.
4. Do you have any questions?

[5] Instructions to the experimenter

- 1. The experimenter collects the closed envelope from the respondent.
- 2. A receipt form must be signed by the respondent.

Experimental material

1 envelope (personal code) with 300 KES in the form of 10-KES vouchers

Receipt form

EXPERIMENT / T2 BOTH HH HEAD AND SPOUSE WATCH VIDEO AND PLAY PUBLIC GOODS GAME

Roster: PUBLIC GOODS GAME T2- %ROSTERTITLE%

generated by list question numfamily

pgg_t2

E t2_resp.Select(x=>x[0]).Contains(@rowcode)

Did you make sure that the respondent provides an MPESA number (if he/she can provide) where to send the money?	SINGLE-SELECT 01 <input type="radio"/> Yes 00 <input type="radio"/> No	pgg_mpesa_t2
Did you make sure that the respondent signed the payment form?	SINGLE-SELECT 01 <input type="radio"/> Yes 00 <input type="radio"/> No	pgg_sign_t2

EXPERIMENT

CONTROL GROUP NO VIDEO AND ONLY HH HEAD PLAYS GAME

E experiment_group_ind==3

STATIC TEXT

Now let's move to the game.

In the control group, ONLY the HEAD should play the game.

Control group ONLY HH HEAD plays game:

Enumerator: Have 1 envelope with 300 KES (in the form of 10-KES vouchers) and 1 receipt form (to be signed by the head) ready for the game.

Who will play the game? I <u>Enumerator</u>: In the control group, NO VIDEO is shown, and ONLY the HEAD should play the game. Hence, only one member preferably HH head MUST watch play game. In case the member is not present o And 338 other symbols [8] F age>=18 E experiment_group_ind==3 V1 self.Length==1 M1 In control HH, only one member preferably the HH head should play the game. Hence, only one member MUST be selected.	MULTI-SELECT: LINKED SOURCE OF CATEGORIES: ROSTER R MEMBERS	control_resp
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STATIC TEXT

[1] Instructions for the experiment: Experimenter explains to respondent

- 1. Prosopis is often considered as a common property resource because it grows on common grazing areas. In this game, you and 14 of your neighbors, chosen at random, will decide on contributions to Prosopis management in your village. Depending on the local invasion level, management will focus on prevention, early detection and rapid response,

or control. You will not know who the neighbors are who are also playing this game. We will give you and your neighbors money in the form of vouchers and ask you to contribute to *Prosopis* management from that money. Contributions will be used for a single intervention (e.g., clearing, sowing, and follow-up weeding of common grazing areas) and will be available only once. The decisions that you and your neighbors make determine the budget available for *Prosopis* management in your village. We respect the decision of every villager who participates in this game. We will not evaluate whether your decision is right or wrong.

2. At the beginning you will be given 300 KES in the form of 10-KES vouchers (experimenter places the envelope (with the personal code) containing the vouchers in front of the respondent).

3. You have to decide how much of these 300 KES you want to contribute to a group pot for *Prosopis* management in your village and how much you want to keep. You must leave the amount (i.e., the number of vouchers) you want to contribute to the group pot in the envelope, and take out the amount (i.e., the number of vouchers) you want to keep and put it in your pocket. Then you have to close the envelope and return it to me.

4. You can contribute all or nothing to the group pot, or you can contribute part of it and keep part. Whether and how you divide it is up to you.

5. Your neighbors who participate in this game will receive the same amount and face the same choice. None of you will know each other's contributions.

6. The amount that you and your neighbors contribute to the group pot is multiplied by 2 by us.

7. The total amount of contributions from you and your neighbors will be announced anonymously a few days later, after we have completed the games in your village, at an organized meeting with you, your neighbors, and the village committee. During the meeting, the envelopes will be opened by our research assistant and the money will be counted and publicly announced. The group's contribution is multiplied by 2. The money is immediately sent to the village treasurer via M-pesa, who is responsible for the budget that will later be used for *Prosopis* management in your village. You will receive the equivalent value of the vouchers kept by M-pesa transfer.

STATIC TEXT

[2] Experiment explanation example: Experimenter explains to respondent

1. Let's consider some examples:

a. EXAMPLE 1: If you, for instance, decide to contribute 100 KES to the group pot for *Prosopis* management in your village, what do you have to do? [ANSWER OF THE RESPONDENT: I have to leave 100 KES (= 10 x 10-KES vouchers) in the envelope. I close the envelope and return it to you.]

b. And what happens with the remaining 200 KES? [ANSWER OF THE RESPONDENT: I can keep it. I will take out 200 KES (= 20 x 10-KES vouchers) from the envelope and put it in my pocket.] (Please let the respondent demonstrate this.)

c. EXAMPLE 2: And if you, for instance, decide to contribute 300 KES to the group pot, what do you have to do? [ANSWER OF THE RESPONDENT: I have to leave the entire 300 KES (all vouchers) in the envelope.]

d. EXAMPLE 3: And if you, for instance, decide to contribute 0 KES to the group pot, what do you have to do? [ANSWER OF THE RESPONDENT: I take the entire 300 KES (all vouchers) out of the envelope and put it in my pocket.]

e. EXAMPLE 4: If you, for instance, decide to contribute 150 KES to the group pot for *Prosopis* management in your village, what do you have to do? [ANSWER OF THE RESPONDENT: I have to leave 150 KES (= 15 x 10-KES vouchers) in the envelope.]

f. How many people will participate in this game? [ANSWER OF THE RESPONDENT: I will play the game with 14 of my neighbors from my village.]

g. Will you know who the other people in the game are? [ANSWER OF THE RESPONDENT: No, I will not know who they are.]

h. Will you know how much your neighbors contribute to the group pot? [ANSWER OF THE RESPONDENT: No, I will not know how much they contribute.]

i. What happens to the money that you and your neighbors contribute to the group pot? [ANSWER OF THE RESPONDENT: The money we contribute to the group pot will be multiplied by 2 by you.]

j. When will you know about the budget available for *Prosopis* management in your village? [ANSWER OF THE RESPONDENT: Only in a few days. The total amount of contributions will be announced at a meeting after my neighbors are also done with this game.]

k. What will happen during this meeting? [ANSWER OF THE RESPONDENT: The envelopes will be opened, the money will be counted and publicly announced. Then the group contribution is multiplied by 2. The money will be sent to the village treasurer via M-pesa, who is responsible for the budget that will later be used for *Prosopis* management in my village.]

2. Is this clear?

3. To make sure you understand the game, could you please repeat the rules of the game?

STATIC TEXT

[3] Instructions to the experimenter

1. Examples are repeated until the experimenter feels confident about the respondent's understanding.

2. Once the experimenter is satisfied with the respondent's understanding, the actual decision is made.

STATIC TEXT

[4] Instructions for the experiment: Experimenter explains to respondent

1. Please take your decision now.

2. Please leave the amount (KES) (i.e., the number of vouchers) you want to contribute to the group pot in the envelope and take out the amount (KES) (i.e., the number of vouchers) you want to keep and put it in your pocket. Once you are ready, please close the envelope and return it to me. We will keep your contribution decision anonymous. This means that non one in the village will know about your contribution.

3. Take as much time as you need for your decision. In the meantime, I will turn around, so that I don't disturb you. Just call me when you are done.

4. Do you have any questions?

STATIC TEXT

[5] Instructions to the experimenter

1. The experimenter collects the closed envelope from the respondent.

2. A receipt form must be signed by the respondent.

Experimental material

1 envelope (personal code) with 300 KES in the form of 10-KES vouchers

Receipt form

EXPERIMENT / CONTROL GROUP NO VIDEO AND ONLY HH HEAD PLAYS GAME

Roster: PUBLIC GOODS GAME CONTROL- %ROSTERTITLE%

generated by list question numfamily

pgg_control

E control_resp.Select(x=>x[0]).Contains(@rowcode)

Did you make sure that the respondent provides an MPESA number (if he/she can provide) w here to send the money?	SINGLE-SELECT 01 <input type="radio"/> Yes 00 <input type="radio"/> No	pgg_mpesa_control
Did you make sure that the respondent signed the payment form?	SINGLE-SELECT 01 <input type="radio"/> Yes 00 <input type="radio"/> No	pgg_sign_control

SECTION 9: PERCEPTIONS ABOUT PROSOPIS INVASION

section_9

[S9]START TIME	DATE: CURRENT TIME s9_start_time
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STATIC TEXT

E !IsAnswered(s9_start_time)

PLEASE RECORD THE START TIME BEFORE YOU START THE SECTION

STATIC TEXT

Perceptions about Prosopis Invasion This subsection should be asked to BOTH MEN AND WOMEN in the household.

SECTION 9: PERCEPTIONS ABOUT PROSOPIS INVASION
Roster: PROSOPIS-GENDER - %ROSTERTITLE%
generated by list question numfamily

r_invasive_gen

E available_member.Select(x=>x[0]).Contains(@rowcode)

Does Prosopis provide you more benefits or disadvantages?	SINGLE-SELECT prosopis_advantage 01 <input type="radio"/> More benefits 02 <input type="radio"/> More disadvantage 03 <input type="radio"/> Neutral
To what extent do you want to eradicate Prosopis? I Completely eradicate - I want to eliminate all prosopis from the area, regardless of the potential consequences or impacts on other ecosystems Targeted eradication - I want to remove prosopis from specific areas And 515 other symbols [9]	SINGLE-SELECT will_prosopis_eradicate 01 <input type="radio"/> Completely eradicate 02 <input type="radio"/> Targeted eradication or sustainable management 03 <input type="radio"/> Limited control 04 <input type="radio"/> No action 96 <input type="radio"/> Other => specify:
Please specify Other. E will_prosopis_eradicate == 96	TEXT will_prosopis_eradicate_other
Has the density/cover of Prosopis increased/decreased today compared to 2019?	SINGLE-SELECT prosopis_density 01 <input type="radio"/> Increased 02 <input type="radio"/> Decreased 03 <input type="radio"/> Just the same

<p>What do you mainly use Prosopis for?</p> <p>I Please select all that apply. Mention first the most important use [multi-select ordered].</p>	<p>MULTI-SELECT: ORDERED prosopis_use</p> <div> <div>01</div> <div><input type="checkbox"/> As a shade against the sun</div> </div> <div> <div>02</div> <div><input type="checkbox"/> For firewood and charcoal production</div> </div> <div> <div>03</div> <div><input type="checkbox"/> Fencing and building materials</div> </div> <div> <div>04</div> <div><input type="checkbox"/> Placing bee hives for honey production</div> </div> <div> <div>05</div> <div><input type="checkbox"/> Wind protection (prevent whirl winds)</div> </div> <div> <div>06</div> <div><input type="checkbox"/> Soil and water conservation</div> </div> <div> <div>07</div> <div><input type="checkbox"/> Production of ropes</div> </div> <div> <div>08</div> <div><input type="checkbox"/> As animal fodder</div> </div> <div> <div>09</div> <div><input type="checkbox"/> Source of Hired labour for my additional income</div> </div> <div> <div>10</div> <div><input type="checkbox"/> Nothing, no use to me</div> </div> <div> <div>96</div> <div><input type="checkbox"/> Other, specify</div> </div>
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What are the MAIN problems you are facing with Prosopis today?

I Please mention your topmost problem first. [multiselect ordered]

MULTI-SELECT: ORDERED

prp_problem

- 01 ☐ Declining pastures
- 02 ☐ Reduced farmlands
- 03 ☐ Livestock lose their teeth
- 04 ☐ bad tasting meat
- 05 ☐ Death of livestock
- 06 ☐ Flooding
- 07 ☐ Soil erosion, degradation
- 08 ☐ Health issues to humans (e.g. malaria)
- 09 ☐ Competition for resources (e.g. water, soil nutrients)
- 10 ☐ Declining yields or production
- 11 ☐ Fire risk
- 12 ☐ Damage to infrastructure (e.g. irrigation canals)
- 13 ☐ Difficulty in control and removal
- 14 ☐ Social and cultural impacts (e.g. conflicts)
- 96 ☐ Others, specify

Please specify Other main problem you are facing with Prosopis.

E prp_problem.Contains(96)

TEXT

prp_problem_oth

.....

Are you willing to participate in any 1-year program meant to take out Prosopis?

SINGLE-SELECT

prosopis_group_ind

- 01 ☐ Yes
- 00 ☐ No

If yes, how many hours per day in 5 working days are you able to invest in this program?

NUMERIC: DECIMAL

prosopis_group_hours

E prosopis_group_ind==1

V1 self>0 && self<=24

M1 Hours MUST be more than 0 but NOT more than 24 hours!

What do you think is the effective community program to control Prosopis invasion?

SINGLE-SELECT

prosopis_control_effective

- 01 ☐ Exchange labour-to-labour within community
- 02 ☐ Encourage community to cultivate lands
- 03 ☐ Pay people to remove Prosopis
- 96 ☐ Others, specify

Please specify other community program/s you think is/are effective in controlling Prosopis.	TEXT prosopis_control_effectiveoth
E prosopis_control_effective==96	
[S9]END TIME	DATE: CURRENT TIME s9_end_time
STATIC TEXT	
E !IsAnswered(s9_end_time)	
PLEASE RECORD THE END TIME BEFORE YOU START THE NEXT SECTION	
STATIC TEXT	
E NumberUnansweredQuestions(section_9)>0	
ATTENTION! YOU HAVE %unanswered_sec_9% UNANSWERED QUESTIONS REMAINING IN THIS SECTION!	
VARIABLE NumberUnansweredQuestions(section_9)	DOUBLE unanswered_sec_9
VARIABLE Math.Round((s9_end_time - s9_start_time).value.TotalSeconds / 60,2)	DOUBLE s9_duration

SECTION 10: COMMUNITY ASPIRATIONS

section_10

[S10]START TIME

DATE: CURRENT TIME

s10_start_time

STATIC TEXT

E !IsAnswered(s10_start_time)

PLEASE RECORD THE START TIME BEFORE YOU START THE SECTION

STATIC TEXT

This section should be asked to BOTH MEN AND WOMEN of the household, preferably the head and his/her spouse (e.g. husband and wife). In case the other member is not present or available for interview, we ask for other male/female member of similar age who is involved in farm activities. The same men and women respondents of the household MUST be asked for all the sections requiring BOTH gender interviews.

SECTION 10: COMMUNITY ASPIRATIONS

Roster: COMMUNITY ASPIRATIONS - %ROSTERTITLE%

generated by list question numfamily

r_comm_asp

E avaliable_member.Select(x=>x[0]).Contains(@rowcode)

STATIC TEXT

Participation Aspirations Number of organized meetings of village residents

What is the maximum number of organized meetings of village residents to discuss village issues and events that your village can hold per year? Enter number.

NUMERIC: INTEGER

meeting_max

V1 self<500

M1 Too much number of meetings! Is that realistic? Please confirm.

What is the minimum number of organized meetings of village residents to discuss village issues and events that your village can hold per year? Enter number.

NUMERIC: INTEGER

meeting_min

E meeting_max>0

V1 self<500

M1 Too much number of meetings! Is that realistic? Please confirm.

V2 self<meeting_max

M2 Minimum number MUST NOT be more than maximum number.

What is the number of organized meetings of village residents to discuss village issues and events that your village holds per year at present? Enter number.

NUMERIC: INTEGER

meeting_current

V1 self<=meeting_max

M1 Present number of meetings MUST NOT be more than maximum number of meetings in the village that you mentioned.

What is the number of organized meetings of village residents to discuss village issues and events that you would like your village to hold per year in the future? Enter number.

NUMERIC: INTEGER

meeting_future

V1 self < 500

M1 Too much number of meetings! Is that realistic? Please confirm.

<p>What is the number of organized meetings of village residents to discuss village issues and events that you would have liked your village to achieve 5 years ago for today? Enter number.</p> <p>V1 self < 500</p> <p>M1 Too much number of meetings! Is that realistic? Please confirm.</p>	<div>NUMERIC: INTEGERmeeting_past</div> <div></div>
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STATIC TEXT

Housing Aspirations A very high level (5) of housing conditions means finished walls (cement, stone with lime/cement, bricks, cement blocks, covered adobe, or wood planks/shingles). In contrast, a very low level (1) of housing conditions means natural walls (cane/palm/trunks, grass/reeds, or mud/cow dung), no walls, bamboo with mud, stone with mud, or other. A moderate level (2, 3, or 4) of housing conditions means uncovered adobe, plywood, cardboard, reused wood, or corrugated iron sheets.



<p>On a scale of 1 to 5, where 1 indicates a very low level of housing conditions and 5 indicates a very high level of housing conditions, what is the level of housing conditions in your village at present?</p> <p>V1 self.InRange(1, 5)</p> <p>M1 Answer MUST be between 1 to 5!</p>	<div>NUMERIC: INTEGERhousing_present</div> <div></div>
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<p>What is the level of housing conditions that you would like your village to achieve in the future?</p> <p>V1 self.InRange(1, 5)</p> <p>M1 Answer MUST be between 1 to 5!</p>	<div>NUMERIC: INTEGERhousing_future</div> <div></div>
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<p>What is the level of housing conditions that you would have liked your village to achieve 5 years ago for today?</p> <p>V1 self.InRange(1, 5)</p> <p>M1 Answer MUST be between 1 to 5!</p>	<div>NUMERIC: INTEGERhousing_past</div> <div></div>
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What particular housing conditions would you like your village to achieve in the future?	<div>SINGLE-SELECT housing_future_type</div> <div>01 <input type="radio"/> Grass and mud houses, no electricity, no toilet</div> <div>02 <input type="radio"/> Mud wall, iron sheets roof, no cement, no electricity, no toilet</div> <div>03 <input type="radio"/> Both iron sheets walls and roof, solar lighting, pit latrine toilets</div> <div>04 <input type="radio"/> Stone walls, iron sheets roof, cemented floor, latrine, water tanks</div> <div>05 <input type="radio"/> Cement, stones, bricks, toilets inside</div> <div>96 <input type="radio"/> Others, specify</div>
Please specify other housing conditions. E housing_future_type==96	<div>TEXT housing_future_type_oth</div> <div>.....</div>

STATIC TEXT

Community Engagement Aspirations Contribution to village projects

What is the maximum annual contribution that a person in your village can contribute to village projects? (in KES)	<div>NUMERIC: INTEGER engage_max</div> <div>.....</div>
What is the minimum annual contribution that a person in your village can contribute to village projects? (in KES) E engage_max>0 V1 self<engage_max M1 Minimum number MUST not be more than maximum number!	<div>NUMERIC: INTEGER engage_min</div> <div>.....</div>
What is the average annual contribution that a person in your village contributes to village projects at present? (in KES) V1 self<=engage_max M1 Present annual contribution MUST NOT be more than the maximum number that you mentioned.	<div>NUMERIC: INTEGER engage_present</div> <div>.....</div>
What is the average annual contribution that you would like each village resident to contribute to village projects in the future? (in KES)	<div>NUMERIC: INTEGER engage_future</div> <div>.....</div>
What is the average annual contribution that each village resident contributes to village projects that you would have liked to achieve 5 years ago for today? (in KES)	<div>NUMERIC: INTEGER engage_past</div> <div>.....</div>

STATIC TEXT

Security Aspirations A very high level (5) of security means that you feel extremely safe every day without fear of violence, theft or vandalism. In contrast, a very low level (1) of security means that the fear of violence, theft or vandalism has a strong negative impact on your life.



<p>On a scale of 1 to 5, where 1 indicates a very low level of security and 5 indicates a very high level of security, what is the level of security your village has at present?</p> <p>V1 self.InRange(1, 5)</p> <p>M1 Answer MUST be between 1 to 5!</p>	<div> <div>NUMERIC: INTEGER</div> <div>security_present</div> <div>-----</div> </div>
<p>What is the level of security that you would like your village to achieve in the future?</p> <p>V1 self.InRange(1, 5)</p> <p>M1 Answer MUST be between 1 to 5!</p>	<div> <div>NUMERIC: INTEGER</div> <div>security_future</div> <div>-----</div> </div>
<p>What is the level of security that you would have liked your village to achieve 5 years ago for today?</p> <p>V1 self.InRange(1, 5)</p> <p>M1 Answer MUST be between 1 to 5!</p>	<div> <div>NUMERIC: INTEGER</div> <div>security_past</div> <div>-----</div> </div>
<p>What form of insecurities would you like your village to prioritize to solve in the future in order to feel safe? Please mention first the most priority.</p>	<div> <div>MULTI-SELECT: ORDERED</div> <div>security_priority</div> <div> <div>01</div> <div><input type="checkbox"/> Bandit attacks</div> </div> <div> <div>02</div> <div><input type="checkbox"/> Cattle rustling, cattle raids, cattle theft</div> </div> <div> <div>03</div> <div><input type="checkbox"/> Theft of money and assets like boda-boda</div> </div> <div> <div>04</div> <div><input type="checkbox"/> Con-man, con-artist</div> </div> <div> <div>96</div> <div><input type="checkbox"/> Others, specify</div> </div> </div>
<p>Please specify other forms of insecurities.</p> <p>E security_priority.Contains(96)</p>	<div> <div>TEXT</div> <div>security_priority_oth</div> <div>-----</div> </div>

STATIC TEXT

Social Support Aspirations A very high level (5) of social support means that people in your community receive full support when they need it. In contrast, a very low level (1) of social support means that community members receive little support when they need it. Social support refers to all resources, whether material, psychological, financial, or emotional, provided by a social network.



<p>On a scale of 1 to 5, where 1 indicates a very low level of social support and 5 indicates a very high level of social support, what is the level of social support (whether formal or informal) in your village at present?</p> <p>V1 self.InRange(1,5)</p> <p>M1 Answer MUST be between 1 to 5!</p>	<div> <div>NUMERIC: INTEGER</div> <div>support_present</div> </div> <div>-----</div>
<p>What is the level of social support that you would like your village to achieve in the future?</p> <p>V1 self.InRange(1,5)</p> <p>M1 Answer MUST be between 1 to 5!</p>	<div> <div>NUMERIC: INTEGER</div> <div>support_future</div> </div> <div>-----</div>
<p>What is the level of social support that you would have liked your village to achieve 5 years ago for today?</p> <p>V1 self.InRange(1,5)</p> <p>M1 Answer MUST be between 1 to 5!</p>	<div> <div>NUMERIC: INTEGER</div> <div>support_past</div> </div> <div>-----</div>
<p>What is your MOST preferred type of social support to have in the future?</p>	<div> <div>SINGLE-SELECT</div> <div>support_type</div> </div> <div> <div>01</div> <div><input type="radio"/> Emotional support (e.g. comforting behaviours)</div> </div> <div> <div>02</div> <div><input type="radio"/> Instrumental (e.g. material goods and services like fertilizer, seeds, pesticides)</div> </div> <div> <div>03</div> <div><input type="radio"/> Financial (e.g. credit, loans, subsidies or aids)</div> </div> <div> <div>04</div> <div><input type="radio"/> Informational (e.g. training, extension advice on agriculture, livestock, health, or others)</div> </div> <div> <div>05</div> <div><input type="radio"/> Structural (e.g. social network, coops, frequency of interaction)</div> </div> <div> <div>96</div> <div><input type="radio"/> Others, specify</div> </div>
<p>Please specify your other most preferred social support.</p> <p>E support_type==96</p>	<div> <div>TEXT</div> <div>support_type_oth</div> </div> <div>.....</div>

STATIC TEXT

Environmental Care Aspirations A very high level (5) of environmental quality means that people take highest care for the

environment and future generation in their village. In contrast, a very low level (1) of environmental quality means that people take little care for the environment and future generation.



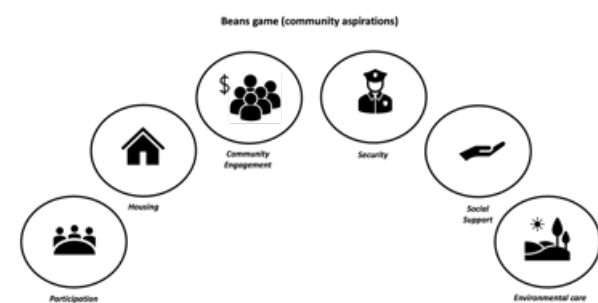
<p>On a scale of 1 to 5, where 1 indicates a very low level of environmental care and 5 indicates a very high level of environmental care, what is the level of environmental care in your village at present?</p> <p>V1 self.InRange(1,5)</p> <p>M1 Answer MUST be between 1 to 5!</p>	<p>NUMERIC: INTEGER envt_present</p> <p>-----</p>
<p>What is the level of environmental care that you would like your village to achieve in the future?</p> <p>V1 self.InRange(1,5)</p> <p>M1 Answer MUST be between 1 to 5!</p>	<p>NUMERIC: INTEGER envt_future</p> <p>-----</p>
<p>What is the level of environmental care that you would have liked your village to achieve 5 years ago for today?</p> <p>V1 self.InRange(1,5)</p> <p>M1 Answer MUST be between 1 to 5!</p>	<p>NUMERIC: INTEGER envt_past</p> <p>-----</p>

STATIC TEXT

Dimension importance We have asked you about participation, housing, community engagement, security, social support, and environmental care. Each of these six categories appears here.

STATIC TEXT

Here are 24 bean seeds that you need to distribute among these six categories, depending on how important each category is to you personally. The more seeds you assign to a category, the more important it is to you.



<p>Number of seeds for participation</p> <p>V1 self.InRange(0,24)</p> <p>M1 Number of seeds assigned MUST NOT be more than 24! Answer MUST be between 0 and 24!</p>	<p>NUMERIC: INTEGER imp_particip</p> <p>-----</p>
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<p>Number of seeds for housing</p> <p>V1 self.InRange(0,24)</p> <p>M1 Number of seeds assigned MUST NOT be more than 24! Answer MUST be between 0 and 24!</p>	<p>NUMERIC: INTEGER</p> <p>imp_housing</p> <p>-----</p>
<p>Number of seeds for community engagement</p> <p>V1 self.InRange(0,24)</p> <p>M1 Number of seeds assigned MUST NOT be more than 24! Answer MUST be between 0 and 24!</p>	<p>NUMERIC: INTEGER</p> <p>imp_engage</p> <p>-----</p>
<p>Number of seeds for security</p> <p>V1 self.InRange(0,24)</p> <p>M1 Number of seeds assigned MUST NOT be more than 24! Answer MUST be between 0 and 24!</p>	<p>NUMERIC: INTEGER</p> <p>imp_security</p> <p>-----</p>
<p>Number of seeds for social support</p> <p>V1 self.InRange(0,24)</p> <p>M1 Number of seeds assigned MUST NOT be more than 24! Answer MUST be between 0 and 24!</p>	<p>NUMERIC: INTEGER</p> <p>imp_support</p> <p>-----</p>
<p>Number of seeds for environmental care</p> <p>V1 self.InRange(0,24)</p> <p>M1 Number of seeds assigned MUST NOT be more than 24! Answer MUST be between 0 and 24!</p>	<p>NUMERIC: INTEGER</p> <p>imp_envt</p> <p>-----</p>
<p>VARIABLE</p> <p>imp_particip + imp_housing + imp_engage + imp_security + imp_support + imp_envt</p>	<p>LONG</p> <p>total_seeds_comm</p>

STATIC TEXT

E total_seeds_comm!=24
 V1 (total_seeds_comm !=24) != true
 M1 The sum of total beans is less than 24, it should be 24!

The total number of seeds allocated to the six dimenstions (participation, housing, community engagement, security, social support, and environmental care) must be equal to 24. Please check again the distribution of the seeds across the dimensions.

<p>[S10] END TIME</p>	<p>DATE: CURRENT TIME</p> <p>s10_end_time</p> <p>-----</p>
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STATIC TEXT

E !IsAnswered(s10_start_time)
 PLEASE RECORD THE END TIME BEFORE YOU START THE NEXT SECTION

STATIC TEXT

E NumberUnansweredQuestions(section_10)>0
 ATTENTION! YOU HAVE %unanswered_sec_10% UNANSWERED QUESTIONS REMAINING IN THIS SECTION!

<p>VARIABLE</p> <p>NumberUnansweredQuestions(section_10)</p>	<p>DOUBLE</p> <p>unanswered_sec_10</p>
<p>VARIABLE</p> <p>Math.Round((s10_end_time - s10_start_time).Value.TotalSeconds / 60,2)</p>	<p>DOUBLE</p> <p>s10_duration</p>

SECTION 11: INDIVIDUAL ASPIRATIONS

section_11

[S11]START TIME	DATE: CURRENT TIME s11_start_time
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STATIC TEXT

E !IsAnswered(s11_start_time)

PLEASE RECORD THE START TIME BEFORE YOU START THE SECTION

STATIC TEXT

Now, we would like to talk about how you currently rate yourself and your household's achievements. We will also talk about how you would like to see yourself and the household what you think you & your household will achieve in the next 5 to 10 years.

STATIC TEXT

This section on aspirations should be asked to BOTH MEN AND WOMEN of the household, preferably the head and his/her spouse (e.g. husband and wife). In case the other member is not present or available for interview, we ask for other male/female member of similar age who is involved in farm activities. The same men and women respondents of the household MUST be asked for all the sections requiring BOTH gender interviews.

SECTION 11: INDIVIDUAL ASPIRATIONS ASPIRATIONS

SECTION 11: INDIVIDUAL ASPIRATIONS / ASPIRATIONS

Roster: ASPIRATION OF - %ROSTERTITLE%

generated by list question numfamily

r_main_members

E available_member.Select(x=>x[0]).Contains(@rowcode)

RECORD THE TIME WHEN YOU START INTERVIEWING %rostartitle%	DATE: CURRENT TIME start_time_aspi_1
-----------------------------------------------------------	-----------------------------------------

STATIC TEXT

Now, we would like to talk about aspirations - that is, your goals (what you want to achieve) in life now and in the future. We will talk about your aspired (1) INCOME (in Ksh), (2) ASSETS (in Ksh) [the things you own], (3) LIVESTOCK (the number and types of animals you current and want to have), (4) SOCIAL STATUS [how you aspire others to see you in the society], (5) EDUCATION (education you aspire for your children or the children in your community), (6) OCCUPATIONS [your aspired employment or job]. We are also interested in your aspirations for agriculture.

SECTION 11: INDIVIDUAL ASPIRATIONS / ASPIRATIONS / ASPIRATION OF - %ROSTERTITLE% ASPIRATION LEVELS

STATIC TEXT

Income Aspirations Please report in Ksh.

What is the maximum level of income a person in your village can earn in a month?	NUMERIC: INTEGER inc_max
-----------------------------------------------------------------------------------	-----------------------------

v1 self > 0

M1 Maximum income in the village MUST be more than 0!

<p>What is the minimum level of income an person with job in your village can earn in a month?</p> <p>V1 <code>inc_min < inc_max && inc_min>0</code></p> <p>M1 Minimum income MUST NOT be more than the maximum income in the village and MUST NOT be 0!</p>	<p>NUMERIC: INTEGER inc_min</p> <p>-----</p>
<p>What is your present level of income per month?</p> <p>V1 <code>self<=inc_max</code></p> <p>M1 Reported present income MUST NOT be more than the maximum income you mentioned!</p>	<p>NUMERIC: INTEGER inc_present</p> <p>-----</p>
<p>What level of monthly income would you like to have in the future?</p>	<p>NUMERIC: INTEGER inc_future</p> <p>-----</p>

STATIC TEXT

Asset Aspirations Please report the value of assets in Ksh.

<p>What is the maximum value of assets a person has in this village? (Assets here include assets like house, vehicle, tv, mobile phone, furniture, EXCEPT LIVESTOCK)</p> <p>V1 <code>self > 0</code></p> <p>M1 Maximum in the village MUST be more than 0!</p>	<p>NUMERIC: INTEGER asset_max</p> <p>-----</p>
<p>What is the minimum value of assets a person has in this village? (Assets here include assets like house, vehicle, tv, mobile phone, furniture, EXCEPT LIVESTOCK)</p> <p>V1 <code>self < asset_max</code></p> <p>M1 Minimum MUST NOT be more than the maximum in the village!</p>	<p>NUMERIC: INTEGER asset_min</p> <p>-----</p>
<p>What is the current value of your assets at present?</p> <p>V1 <code>self<=asset_max</code></p> <p>M1 Reported present asset value MUST NOT be more than the maximum asset value you mentioned!</p>	<p>NUMERIC: INTEGER asset_present</p> <p>-----</p>
<p>What value of assets would you like to achieve in the future?</p>	<p>NUMERIC: INTEGER asset_future</p> <p>-----</p>

STATIC TEXT

Livestock Aspirations Please report the number and type of animals you aspire to have in the future.

Which among the livestock is your 3 MOST preferred or the MOST productive? Mention first the most important one for you.	MULTI-SELECT: ORDERED 01 <input type="checkbox"/> Bulls/Oxens/Steers 02 <input type="checkbox"/> Cows/Heifer 03 <input type="checkbox"/> Calves - (young female or male cow) 04 <input type="checkbox"/> Goats 05 <input type="checkbox"/> Sheep 06 <input type="checkbox"/> Camels 07 <input type="checkbox"/> Donkey/Mules 08 <input type="checkbox"/> Poultry (chicken, ducks, others) 09 <input type="checkbox"/> Beehives and other insects (bees, crickets, etc.) 10 <input type="checkbox"/> Horses 96 <input type="checkbox"/> Other livestock or animals for productive uses	liv_prefer
Please specify Other livestock or animals for productive uses? E liv_prefer.Contains(96)	TEXT	liv_prefer_oth

SECTION 11: INDIVIDUAL ASPIRATIONS / ASPIRATIONS / ASPIRATION OF - %ROSTERTITLE% / ASPIRATION LEVELS

Roster: LIVESTOCK IN THE VILLAGE - %ROSTERTITLE%
generated by multi-select question [liv_prefer](#)

What is the maximum number of %rostartitle% a person has in this village? Enter number.	NUMERIC: INTEGER	liv_max
What is the minimum number of %rostartitle% a person who owns livestock can have in this village? Enter number. E liv_max>0 V1 self < liv_max && self>0 M1 Minimum MUST NOT be more than the reported maximum in the village and MUST NOT be 0!	NUMERIC: INTEGER	liv_min
How many %rostartitle% do you have currently? Enter number. I Please mention again the types and number of livestock you currently own, as you reported in Section 4: Livestock Ownership. E liv_max>0 V1 self<=liv_max M1 Reported number of livestock MUST NOT be more than the maximum number you mentioned!	NUMERIC: INTEGER	liv_present
How many %rostartitle% would you like to have in the future? Enter number.	NUMERIC: INTEGER	liv_future

STATIC TEXT

Social Status Aspirations Please report the level of social status in the society's ladder that you aspire.



On a scale of 1 to 10, with 1 being the lowest and 10 the highest level of social status one has, what is the level of social status you have at present?

V1 self>=1 && self<=10

M1 Social status score MUST be between 1 to 10.

NUMERIC: INTEGER

stat_present

What is the level of social status that you would like to achieve in the future?

V1 self>=1 && self<=10

M1 Social status score MUST be between 1 to 10.

NUMERIC: INTEGER

stat_future

STATIC TEXT

Education Aspirations Please report the level of education that you aspire for your children or children in this community.

What is the maximum level of education an individual has in this village?

SINGLE-SELECT

educ_max

- 00 ☐ No formal education
- 01 ☐ Nursery/ Kindergarten/ECD
- 02 ☐ Primary 1
- 03 ☐ Primary 2
- 04 ☐ Primary 3
- 05 ☐ Primary 4
- 06 ☐ Primary 5
- 07 ☐ Primary 6
- 08 ☐ Primary 7
- 09 ☐ Primary 8
- 10 ☐ Secondary school Year 1
- 11 ☐ Secondary school Year 2
- 12 ☐ Secondary school Year 3
- 13 ☐ Secondary school Year 4
- 14 ☐ University 1
- 15 ☐ University 2

[And 4 other symbols \[73\]](#)

What is the minimum level of education an individual has in this village?

V1 self <= educ_max
M1 Minimum MUST NOT be more than the maximum in the village.

SINGLE-SELECTeduc_min

00

☐

No formal education

01

☐

Nursery/ Kindergarten/ECD

02

☐

Primary 1

03

☐

Primary 2

04

☐

Primary 3

05

☐

Primary 4

06

☐

Primary 5

07

☐

Primary 6

08

☐

Primary 7

09

☐

Primary 8

10

☐

Secondary school Year 1

11

☐

Secondary school Year 2

12

☐

Secondary school Year 3

13

☐

Secondary school Year 4

14

☐

University 1

15

☐

University 2

[And 4 other symbols \[73\]](#)

James is a son in this household. He is five years old. If there were no limitations to the household's capacity to educate him, how many years of schooling would you wish James to achieve?

SINGLE-SELECTeduc_male_future

00

☐

No formal education

01

☐

Nursery/ Kindergarten/ECD

02

☐

Primary 1

03

☐

Primary 2

04

☐

Primary 3

05

☐

Primary 4

06

☐

Primary 5

07

☐

Primary 6

08

☐

Primary 7

09

☐

Primary 8

10

☐

Secondary school Year 1

11

☐

Secondary school Year 2

12

☐

Secondary school Year 3

13

☐

Secondary school Year 4

14

☐

University 1

15

☐

University 2

[And 4 other symbols \[73\]](#)

Mary is a daughter in this household. She is five years old. If there were no limitations to the household's capacity to educate her, how many years of schooling would you wish Mary to achieve?

SINGLE-SELECTeduc_fem_future

00

☐ No formal education

01

☐ Nursery/ Kindergarten/ECD

02

☐ Primary 1

03

☐ Primary 2

04

☐ Primary 3

05

☐ Primary 4

06

☐ Primary 5

07

☐ Primary 6

08

☐ Primary 7

09

☐ Primary 8

10

☐ Secondary school Year 1

11

☐ Secondary school Year 2

12

☐ Secondary school Year 3

13

☐ Secondary school Year 4

14

☐ University 1

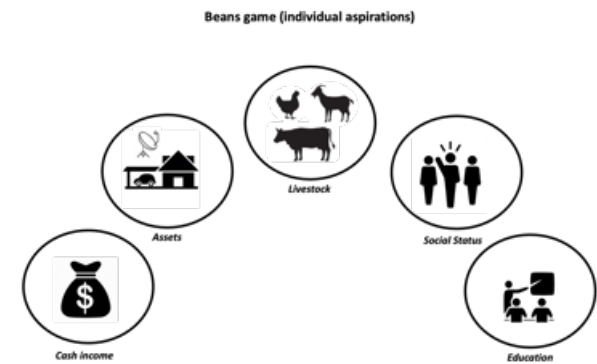
15

☐ University 2

[And 4 other symbols \[73\]](#)

STATIC TEXT

Now I will give you 20 bean seeds. Please distribute these 20 seeds according to how you value the dimensions of life aspirations. That is, INCOME, ASSETS, LIVESTOCK, SOCIAL STATUS, EDUCATION



<div>Number of seeds for income</div> <div>V1 self.InRange(0,20)</div> <div>M1 It must be between 0 and 20</div>	<div>NUMERIC: INTEGERimp_inc</div> <div>-----</div>
<div>Number of seeds for assets (land, machinery, and other productive assets, EXCEPT livestock)</div> <div>V1 self.InRange(0,20)</div> <div>M1 It must be between 0 and 20</div>	<div>NUMERIC: INTEGERimp_asset</div> <div>-----</div>
<div>Number of seeds for livestock</div> <div>V1 self.InRange(0,20)</div> <div>M1 It must be between 0 and 20</div>	<div>NUMERIC: INTEGERimp_livs</div> <div>-----</div>
<div>Number of seeds for social status (level of social status in the society's ladder)</div> <div>V1 self.InRange(0,20)</div> <div>M1 It must be between 0 and 20</div>	<div>NUMERIC: INTEGERimp_stat</div> <div>-----</div>

Number of seeds for education	NUMERIC: INTEGER	imp_educ
V1 self.InRange(0,20)	-----	
M1 It must be between 0 and 20		
VARIABLE	LONG	asp_ind_seeds
imp_inc + imp_asset + imp_livs + imp_stat + imp_educ		

STATIC TEXT

E asp_ind_seeds!=20
V1 asp_ind_seeds > 20
M1 The sum of total beans is less than 20, it should be 20!
V2 asp_ind_seeds < 20
M2 The sum of total beans is greater than 20, it should be 20!

The total number of seeds allocated to the five dimenstions (income, asset, livestock, social status, education) must be equal to 20. Please check again the distribution of the seeds across the dimensions.

STATIC TEXT

Occupational Aspirations Please report the occupations, jobs, business, or any form of employment that you aspire in the future.

What kind of occupation or livelihood do you a spire to do in 5 years? Please mention top 3 with the first one your topmost aspired job. [multi-select ordered]	MULTI-SELECT: ORDERED	occup_future
	01 <input type="checkbox"/> Large-scale crop cultivation	
	02 <input type="checkbox"/> Small-scale crop cultivation	
	03 <input type="checkbox"/> Livestock keeping/raising	
	04 <input type="checkbox"/> Pasture farming	
	05 <input type="checkbox"/> Fishing	
	06 <input type="checkbox"/> Agricultural wage labour (hi red agricultural labour)	
	07 <input type="checkbox"/> Self-employed agribusiness/ agrienterprise	
	08 <input type="checkbox"/> Self-employed non-farm bus iness (wholesale/retail trade , etc.)	
	09 <input type="checkbox"/> Food industry (e.g. restaura nts waiter, cashier)	
	10 <input type="checkbox"/> Health (nurse, doctor, etc.)	
	11 <input type="checkbox"/> Education/Teacher	
	12 <input type="checkbox"/> Government officers/emplo yees/ civil servant	
	13 <input type="checkbox"/> Other public sector jobs, sp ecify	
	14 <input type="checkbox"/> Factory worker/manufacturi ng jobs	
	15 <input type="checkbox"/> Construction labour	
	16 <input type="checkbox"/> Transport/Driver	
	And 10 other symbols [89]	

What occupation would you wish for your male child or male children in this community? Please mention top 3 with the first one your topmost aspired job. [multi-select ordered]

MULTI-SELECT: ORDERED

occup_future_male

01

☐ Large-scale crop cultivation

02

☐ Small-scale crop cultivation

03

☐ Livestock keeping/raising

04

☐ Pasture farming

05

☐ Fishing

06

☐ Agricultural wage labour (hired agricultural labour)

07

☐ Self-employed agribusiness/agrienterprise

08

☐ Self-employed non-farm business (wholesale/retail trade, etc.)

09

☐ Food industry (e.g. restaurants waiter, cashier)

10

☐ Health (nurse, doctor, etc.)

11

☐ Education/Teacher

12

☐ Government officers/employees/ civil servant

13

☐ Other public sector jobs, specify

14

☐ Factory worker/manufacturing jobs

15

☐ Construction labour

16

☐ Transport/Driver

[And 10 other symbols \[89\]](#)

What occupation would you wish for your female child? Please mention top 3 with the first one your topmost aspired job. [multi-select ordered]

MULTI-SELECT: ORDEREDoccup_future_fem

01

☐ Large-scale crop cultivation

02

☐ Small-scale crop cultivation

03

☐ Livestock keeping/raising

04

☐ Pasture farming

05

☐ Fishing

06

☐ Agricultural wage labour (hire agricultural labour)

07

☐ Self-employed agribusiness/agrienterprise

08

☐ Self-employed non-farm business (wholesale/retail trade, etc.)

09

☐ Food industry (e.g. restaurants waiter, cashier)

10

☐ Health (nurse, doctor, etc.)

11

☐ Education/Teacher

12

☐ Government officers/employees/ civil servant

13

☐ Other public sector jobs, specify

14

☐ Factory worker/manufacturing jobs

15

☐ Construction labour

16

☐ Transport/Driver

[And 10 other symbols \[89\]](#)

SECTION 11: INDIVIDUAL ASPIRATIONS / ASPIRATIONS / ASPIRATION OF - %ROSTERTITLE%
AGRICULTURAL ASPIRATIONS

STATIC TEXT

Agricultural Aspirations Now we will talk about your aspirations or hopes in doing agricultural-related jobs including farming and livestock keeping.

How likely would you encourage your children or the children and youth in the community to be in agriculture--farm, livestock, or venture into farming (agribusiness or agrienterprise)?

SINGLE-SELECTyouth_agri

01

☐ Very unlikely

02

☐ Unlikely

03

☐ Maybe, maybe not

04

☐ Likely

05

☐ Very likely

What are the reasons why you are more likely to encourage your children or children in this village to be in agriculture? Please write.

E youth_agri==4 || youth_agri==5

TEXTtofarm_why

.....

<p>What are the reasons why you are less likely or indifferent to encourage your children or children in this village to be in agriculture?</p> <p>E youth_agri==1 youth_agri==2 youth_agri==3</p>	<p>TEXT notfarm_why</p> <p>.....</p>
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STATIC TEXT

How likely would you aspire your children or children of this community to be employed as:

-AGRICULTURAL PRODUCER: farmer, pastoralists -AGRICULTURAL ENTREPRENEUR: running agricultural businesses and processing agri-products like crop and livestock products selling, honey selling, wine brewing, etc.) -NON-FARM work or businesses: employees, beauty salons, grocery shops/ kiosk

Please distribute the 10 bean seeds among these three types of categories of work.

<p>Number of seeds for your children or children in this village to be AGRICULTURAL PRODUCER (i.e. farmer, pastoralist)- You grow crops or raise animals and sell them directly at harvest.</p> <p>V1 self<=10</p> <p>M1 Answer MUST NOT be more than 10 seeds!</p>	<p>NUMERIC: INTEGER asp_agriprod</p> <p>-----</p>
<p>Number of seeds for your children or children in this village to be AGRICULTURAL ENTREPRENEUR (running agricultural businesses and processing agri-products like crop and livestock products selling, honey selling, wine brewing, etc.)- You grow crops or raise animals, sell them at the market area, slaughter animal and sell the meat, process some products and sell.</p> <p>V1 self<=10</p> <p>M1 Answer MUST NOT be more than 10 seeds!</p>	<p>NUMERIC: INTEGER asp_agrientrep</p> <p>-----</p>
<p>Number of seeds for your children or children in this village to be in NON-FARM work or business (e.g. beauty salons, grocery shops/ kiosk, employees)- You run a non-farm shop like groceries or kiosk, sell clothes, or work as an employee.</p> <p>V1 self<=10</p> <p>M1 Answer MUST NOT be more than 10 seeds!</p>	<p>NUMERIC: INTEGER asp_nonfarm</p> <p>-----</p>
<p>VARIABLE</p> <p>asp_agriprod + asp_agrientrep + asp_nonfarm</p>	<p>LONG asp_distri</p>

STATIC TEXT

E asp_distri!=10

V1 (asp_distri !=10) != true

M1 The distribution MUST be equal to 10 seeds!. Please check again.

The distribution MUST be equal to 10! Please check again.

<p>At ANY POINT IN LIFE or ANY AGE, how likely would you want any of your children or youth to engage in farming or farming business or agriculture-related work?</p>	<p>SINGLE-SELECT youth_agri_anyage</p> <p>01 <input type="radio"/> Very unlikely</p> <p>02 <input type="radio"/> Unlikely</p> <p>03 <input type="radio"/> Maybe, maybe not</p> <p>04 <input type="radio"/> Likely</p> <p>05 <input type="radio"/> Very likely</p>
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<p>At what age do you think your children can engage in farming/livestock keeping or agriculture-related work? (Age in completed years)</p> <p>E youth_agri_anyage >= 3 && youth_agri_anyage <= 5 V1 self >=10 && self<=120 M1 Age to farm MUST be between 10 and 120 years old!</p>	<p>NUMERIC: INTEGER youth_agri_age</p> <p>-----</p>
<p>Who among your household members would you pass on farming or livestock keeping or your agricultural work?</p>	<p>MULTI-SELECT: LINKED SOURCE OF CATEGORIES: ROSTER R MEMBERS farm_successor</p>
<p>In case your children or young people would want to farm, how would they obtain land in this village?</p>	<p>SINGLE-SELECT land_obtain</p> <p>01 <input type="radio"/> They will be allocated land not previously cultivated (virgin land or pasture) 02 <input type="radio"/> They will be allocated family land now under fallow 03 <input type="radio"/> They will inherit land already under cultivation 04 <input type="radio"/> They will rent or borrow land 05 <input type="radio"/> They will purchase land 96 <input type="radio"/> Others, specify</p>
<p>Please specify other way of obtaining land.</p> <p>E land_obtain==96</p>	<p>TEXT land_obtain_oth</p> <p>-----</p>

SECTION 11: INDIVIDUAL ASPIRATIONS / ASPIRATIONS / ASPIRATION OF - %ROSTERTITLE%

ASPIRATION IMPORTANCE AND ACHIEVING THEM

<p>With your aspirations shared, how confident are you that your household can achieve these goals?</p>	<p>SINGLE-SELECT asp_confidence</p> <p>01 <input type="radio"/> Very unlikely 02 <input type="radio"/> Unlikely 03 <input type="radio"/> Maybe, maybe not 04 <input type="radio"/> Likely 05 <input type="radio"/> Very likely</p>
<p>With your aspirations shared, how many years from now do you think you can achieve these goals?</p> <p>V1 self>0 M1 The number of years MUST be greater than 0! V2 self<=100 M2 Too large number! Is that realistic? Please confirm.</p>	<p>NUMERIC: INTEGER asp_year</p> <p>-----</p>

How satisfied are you with your life?	SINGLE-SELECT	satis_life
	01 <input type="radio"/> Very dissatisfied	
	02 <input type="radio"/> Dissatisfied	
	03 <input type="radio"/> Neither	
	04 <input type="radio"/> Satisfied	
	05 <input type="radio"/> Very satisfied	

SECTION 11: INDIVIDUAL ASPIRATIONS / ASPIRATIONS / ASPIRATION OF - %ROSTERTITLE%
[C] ECONOMIC BEHAVIOUR

Have you ever invested your money?	SINGLE-SELECT	invest_ind
	01 <input type="radio"/> Yes	
	00 <input type="radio"/> No	

What did you invest in? I Record in order of importance. Please mention first the main investment you have made. E invest_ind==1	MULTI-SELECT: ORDERED	invest_what
	01 <input type="checkbox"/> Education of children	
	02 <input type="checkbox"/> Buying agricultural inputs	
	03 <input type="checkbox"/> Hiring farm labourers	
	04 <input type="checkbox"/> Buying/renting farm equipment	
	05 <input type="checkbox"/> Buying livestock	
	06 <input type="checkbox"/> Buying agricultural land	
	07 <input type="checkbox"/> Establishing non-farm business	
	08 <input type="checkbox"/> Bank deposits, savings	
	09 <input type="checkbox"/> Mutual funds	
	10 <input type="checkbox"/> Insurance products	
	11 <input type="checkbox"/> Food expenditures	
	12 <input type="checkbox"/> Clothing and footwear	
	13 <input type="checkbox"/> House furnishings, construction, and reconstruction	
	14 <input type="checkbox"/> Health and related expenses	
	15 <input type="checkbox"/> House expenses like water, electricity, gas, fuel	
	16 <input type="checkbox"/> Recreation and culture like vacation, weddings, festivals, celebrations	
	And 3 other symbols [68]	

Please specify other type of investment you made. E invest_what.Contains(96)	TEXT	invest_what_oth
	

Suppose you were offered a loan, how will you mainly invest it?

MULTI-SELECT: ORDERED

loan_purpose

01

☐

Education of children

02

☐

Buying agricultural inputs

03

☐

Hiring farm labourers

04

☐

Buying/renting farm equipment

05

☐

Buying livestock

06

☐

Buying agricultural land

07

☐

Establishing non-farm business

08

☐

Bank deposits, savings

09

☐

Mutual funds

10

☐

Insurance products

11

☐

Food expenditures

12

☐

Clothing and footwear

13

☐

House furnishings, construction, and reconstruction

14

☐

Health and related expenses

15

☐

House expenses like water, electricity, gas, fuel

16

☐

Recreation and culture like vacation, weddings, festivals, celebrations

[And 3 other symbols \[68\]](#)

Please specify other purpose of loan.

E loan_purpose.Contains(96)

TEXT

loan_purpose_oth

How much loan in total will you borrow for the loan purpose your loan purposes?

NUMERIC: INTEGER

loan_amt

RECORD THE TIME WHEN YOU FINISH INTERVIEWING %rostertitle%

DATE: CURRENT TIME

end_time_aspi_1

SECTION 11: INDIVIDUAL ASPIRATIONS / ASPIRATIONS / ASPIRATION OF - %ROSTERTITLE%
SELF-EFFICACY

STATIC TEXT

Now we would like to ask you a series of questions about how you evaluate your abilities to be successful in life, your hopes about your way to achieve the goals, how much control you have to be successful in life, and your trust about your own community. Let's begin.

STATIC TEXT

For each of the following statements, on a scale of 1 (Strongly disagree) to 5 (Strongly agree), please tell me how much you agree with the statements.

5-point ratings



-- - +/- + ++
1 2 3 4 5
 * ** *** **** *****

Use for:

Community aspirations: housing aspirations, security aspirations, social support aspirations, environmental care aspirations
 Individual aspirations: agricultural aspirations, life satisfaction

Self-efficacy

Village efficacy

Locus of control

Trust

I can think of a way out of the problems I am facing in my main livelihoods (such as crop production, livestock keeping, enterprises, non-farm work).

V1 self>=1 && self<=5

M1 Answer MUST be between 1 to 5 only!

SINGLE-SELECT

eff1

- 01 ☐ Strongly disagree
 02 ☐ Disagree
 03 ☐ Indifferent (neither nor)
 04 ☐ Agree
 05 ☐ Strongly agree

I am confident that I can work hard to achieve my goals

V1 self>=1 && self<=5

M1 Answer MUST be between 1 to 5 only!

SINGLE-SELECT

eff2

- 01 ☐ Strongly disagree
 02 ☐ Disagree
 03 ☐ Indifferent (neither nor)
 04 ☐ Agree
 05 ☐ Strongly agree

I am confident that I can accomplish my production goals at the end of the harvest or my income goals (if not farming).

V1 self>=1 && self<=5

M1 Answer MUST be between 1 to 5 only!

SINGLE-SELECT

eff3

- 01 ☐ Strongly disagree
 02 ☐ Disagree
 03 ☐ Indifferent (neither nor)
 04 ☐ Agree
 05 ☐ Strongly agree

I can solve most of my farm-related or job-related problems if I invest the necessary hard work.

V1 self>=1 && self<=5

M1 Answer MUST be between 1 to 5 only!

SINGLE-SELECT

eff4

- 01 ☐ Strongly disagree
 02 ☐ Disagree
 03 ☐ Indifferent (neither nor)
 04 ☐ Agree
 05 ☐ Strongly agree

I can invest the right effort to live a better life.

V1 self>=1 && self<=5

M1 Answer MUST be between 1 to 5 only!

SINGLE-SELECT

eff5

- 01 ☐ Strongly disagree
 02 ☐ Disagree
 03 ☐ Indifferent (neither nor)
 04 ☐ Agree
 05 ☐ Strongly agree

I can achieve all I wish for my family. V1 self>=1 && self<=5 M1 Answer MUST be between 1 to 5 only!	SINGLE-SELECT 01 <input type="radio"/> Strongly disagree 02 <input type="radio"/> Disagree 03 <input type="radio"/> Indifferent (neither nor) 04 <input type="radio"/> Agree 05 <input type="radio"/> Strongly agree	eff6
People like yourself have influence in making t his village a better place to live. V1 self>=1 && self<=5 M1 Answer MUST be between 1 to 5 only!	SINGLE-SELECT 01 <input type="radio"/> Strongly disagree 02 <input type="radio"/> Disagree 03 <input type="radio"/> Indifferent (neither nor) 04 <input type="radio"/> Agree 05 <input type="radio"/> Strongly agree	eff7

SECTION 11: INDIVIDUAL ASPIRATIONS / ASPIRATIONS / ASPIRATION OF - %ROSTERTITLE%
LOCUS OF CONTROL

STATIC TEXT

For each of the following statements, on a scale of 1 (Strongly disagree) to 5 (Strongly agree), please tell me how much you agree with the statements.



How my life takes course is dependent on me. V1 self>=1 && self<=5 M1 Answer MUST be between 1 to 5 only!	SINGLE-SELECT 01 <input type="radio"/> Strongly disagree 02 <input type="radio"/> Disagree 03 <input type="radio"/> Indifferent (neither nor) 04 <input type="radio"/> Agree 05 <input type="radio"/> Strongly agree	1oc1
What happens to me is my own doing. V1 self>=1 && self<=5 M1 Answer MUST be between 1 to 5 only!	SINGLE-SELECT 01 <input type="radio"/> Strongly disagree 02 <input type="radio"/> Disagree 03 <input type="radio"/> Indifferent (neither nor) 04 <input type="radio"/> Agree 05 <input type="radio"/> Strongly agree	1oc2

<p>A citizen plays a role in making decisions about the future of the government.</p> <p>V1 self>=1 && self<=5</p> <p>M1 Answer MUST be between 1 to 5 only!</p>	<p>SINGLE-SELECT 1oc3</p> <p>01 <input type="radio"/> Strongly disagree</p> <p>02 <input type="radio"/> Disagree</p> <p>03 <input type="radio"/> Indifferent (neither nor)</p> <p>04 <input type="radio"/> Agree</p> <p>05 <input type="radio"/> Strongly agree</p>
<p>Compared to others, I have not achieved what I deserved.</p> <p>V1 self>=1 && self<=5</p> <p>M1 Answer MUST be between 1 to 5 only!</p>	<p>SINGLE-SELECT 1oc4</p> <p>01 <input type="radio"/> Strongly disagree</p> <p>02 <input type="radio"/> Disagree</p> <p>03 <input type="radio"/> Indifferent (neither nor)</p> <p>04 <input type="radio"/> Agree</p> <p>05 <input type="radio"/> Strongly agree</p>
<p>What one achieves is, in the first instance, a question of destiny and luck.</p> <p>V1 self>=1 && self<=5</p> <p>M1 Answer MUST be between 1 to 5 only!</p>	<p>SINGLE-SELECT 1oc5</p> <p>01 <input type="radio"/> Strongly disagree</p> <p>02 <input type="radio"/> Disagree</p> <p>03 <input type="radio"/> Indifferent (neither nor)</p> <p>04 <input type="radio"/> Agree</p> <p>05 <input type="radio"/> Strongly agree</p>
<p>I often experience that others make decisions about my own life.</p> <p>V1 self>=1 && self<=5</p> <p>M1 Answer MUST be between 1 to 5 only!</p>	<p>SINGLE-SELECT 1oc6</p> <p>01 <input type="radio"/> Strongly disagree</p> <p>02 <input type="radio"/> Disagree</p> <p>03 <input type="radio"/> Indifferent (neither nor)</p> <p>04 <input type="radio"/> Agree</p> <p>05 <input type="radio"/> Strongly agree</p>
<p>The possibilities I have in life are dependent on social circumstances (e.g. family set ups, family economic status, surroundings, culture, norms , and other social factors).</p> <p>V1 self>=1 && self<=5</p> <p>M1 Answer MUST be between 1 to 5 only!</p>	<p>SINGLE-SELECT 1oc7</p> <p>01 <input type="radio"/> Strongly disagree</p> <p>02 <input type="radio"/> Disagree</p> <p>03 <input type="radio"/> Indifferent (neither nor)</p> <p>04 <input type="radio"/> Agree</p> <p>05 <input type="radio"/> Strongly agree</p>
<p>Getting a good job depends mainly on being in the right place at the right time.</p> <p>V1 self>=1 && self<=5</p> <p>M1 Answer MUST be between 1 to 5 only!</p>	<p>SINGLE-SELECT 1oc8</p> <p>01 <input type="radio"/> Strongly disagree</p> <p>02 <input type="radio"/> Disagree</p> <p>03 <input type="radio"/> Indifferent (neither nor)</p> <p>04 <input type="radio"/> Agree</p> <p>05 <input type="radio"/> Strongly agree</p>

SECTION 11: INDIVIDUAL ASPIRATIONS / ASPIRATIONS / ASPIRATION OF - %ROSTERTITLE%

TRUST

STATIC TEXT

For each of the following statements, on a scale of 1 (Strongly disagree) to 5 (Strongly agree), please tell me how much

you agree with the statements.



<p>Most of the people in my village are trustworthy and honest.</p> <p>V1 self>=1 && self<=5</p> <p>M1 Answer MUST be between 1 to 5 only!</p>	<p>SINGLE-SELECT trust1</p> <p>01 <input type="radio"/> Strongly disagree</p> <p>02 <input type="radio"/> Disagree</p> <p>03 <input type="radio"/> Indifferent (neither nor)</p> <p>04 <input type="radio"/> Agree</p> <p>05 <input type="radio"/> Strongly agree</p>
<p>Most of the people in my village are concerned with their own welfare.</p> <p>V1 self>=1 && self<=5</p> <p>M1 Answer MUST be between 1 to 5 only!</p>	<p>SINGLE-SELECT trust2</p> <p>01 <input type="radio"/> Strongly disagree</p> <p>02 <input type="radio"/> Disagree</p> <p>03 <input type="radio"/> Indifferent (neither nor)</p> <p>04 <input type="radio"/> Agree</p> <p>05 <input type="radio"/> Strongly agree</p>
<p>In my village, one has to be careful, or someone will take advantage of us</p> <p>V1 self>=1 && self<=5</p> <p>M1 Answer MUST be between 1 to 5 only!</p>	<p>SINGLE-SELECT trust3</p> <p>01 <input type="radio"/> Strongly disagree</p> <p>02 <input type="radio"/> Disagree</p> <p>03 <input type="radio"/> Indifferent (neither nor)</p> <p>04 <input type="radio"/> Agree</p> <p>05 <input type="radio"/> Strongly agree</p>
<p>Most of the people in my village come forward to help us out when we are in need</p> <p>V1 self>=1 && self<=5</p> <p>M1 Answer MUST be between 1 to 5 only!</p>	<p>SINGLE-SELECT trust4</p> <p>01 <input type="radio"/> Strongly disagree</p> <p>02 <input type="radio"/> Disagree</p> <p>03 <input type="radio"/> Indifferent (neither nor)</p> <p>04 <input type="radio"/> Agree</p> <p>05 <input type="radio"/> Strongly agree</p>
<p>I feel like a member of this village</p> <p>V1 self>=1 && self<=5</p> <p>M1 Answer MUST be between 1 to 5 only!</p>	<p>SINGLE-SELECT trust5</p> <p>01 <input type="radio"/> Strongly disagree</p> <p>02 <input type="radio"/> Disagree</p> <p>03 <input type="radio"/> Indifferent (neither nor)</p> <p>04 <input type="radio"/> Agree</p> <p>05 <input type="radio"/> Strongly agree</p>

<p>If the need arises, a mother can leave her child with one of the households in this village and expect it to be safe</p> <p>V1 self>=1 && self<=5</p> <p>M1 Answer MUST be between 1 to 5 only!</p>	<div>SINGLE-SELECTtrust6</div> <div><div>01</div><div><input type="radio"/> Strongly disagree</div></div> <div><div>02</div><div><input type="radio"/> Disagree</div></div> <div><div>03</div><div><input type="radio"/> Indifferent (neither nor)</div></div> <div><div>04</div><div><input type="radio"/> Agree</div></div> <div><div>05</div><div><input type="radio"/> Strongly agree</div></div>
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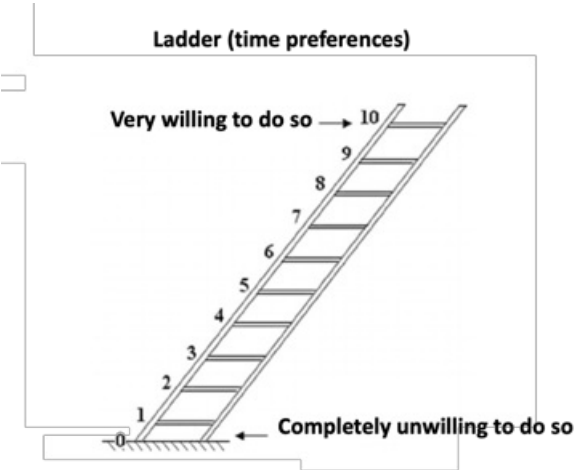
Please tell me, in general, how willing or unwilling you are to take risks. Please use a scale from 0 to 10, where 0 means you are “completely unwilling to take risks” and a 10 means you are “very willing to take risks”. You can also use any numbers between 0 and 10 to indicate where you fall on the scale, like 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.

NUMERIC: INTEGER risk

V1 self>=0 && self<=10
M1 Answer MUST be between 0 to 10 only!

STATIC TEXT

How willing are you to give up something that is beneficial for you today in order to benefit more from that in the future? Please again indicate your answer on a scale from 0 to 10, where 0 means you are “completely unwilling to do so” and a 10 means you are “very willing to do so”.



How willing are you to give up something that is beneficial for you today in order to benefit more from that in the future? Please again indicate your answer on a scale from 0 to 10, where 0 means you are “completely unwilling to do so” and a 10 means you are “very willing to do so”. You can also use any numbers between 0 and 10 to indicate where you fall on the scale, like 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.

NUMERIC: INTEGER time

V1 self>=0 && self<=10
M1 Answer MUST be between 0 to 10 only!

[S11] END TIME

DATE: CURRENT TIME s11_end_time

STATIC TEXT

E !IsAnswered(s11_start_time)

PLEASE RECORD THE END TIME BEFORE YOU START THE NEXT SECTION

STATIC TEXT

E NumberUnansweredQuestions(section_11)>0

ATTENTION! YOU HAVE %unanswered_sec_11% UNANSWERED QUESTIONS REMAINING IN THIS SECTION!

VARIABLE NumberUnansweredQuestions(section_11)	DOUBLE unanswered_sec_11
---------------------------------------------------	-----------------------------------------------------------

VARIABLE Math.Round((s11_end_time - s11_start_time).Value.TotalSeconds / 60,2)	DOUBLE s11_duration
-----------------------------------------------------------------------------------	------------------------------------------------------

SECTION 12: ASSETS

section_12

[S12]START TIME

DATE: CURRENT TIME

s12_start_time

STATIC TEXT

E !IsAnswered(s12_start_time)

PLEASE RECORD THE START TIME BEFORE YOU START THE SECTION

SECTION 12: ASSETS
ASSETS

STATIC TEXT

Ask if the household owns the following items. Then, continue asking how many the household owns and their estimated total value, who in the household primarily owns, who makes decision about its use or sale.

Does your household own any of these items?

MULTI-SELECT: YES/NO

ha0

V1 self.Missing.Length==0

M1 You haven't answered all the questions.

- 01 ☐/ ☐ Smart phones (touch screen)
- 02 ☐/ ☐ Simple mobile phones (keypad)
- 03 ☐/ ☐ Cars, vans
- 04 ☐/ ☐ Motorcycles /Scooter/ Boda-boda
- 05 ☐/ ☐ Bicycle
- 06 ☐/ ☐ Buildings (house, motels/hotels, other buildings)
- 07 ☐/ ☐ Electric Stoves
- 08 ☐/ ☐ Gas or Paraffin Stove
- 09 ☐/ ☐ Microwave
- 10 ☐/ ☐ Refrigerator
- 11 ☐/ ☐ Freezer
- 12 ☐/ ☐ Washing Machine
- 13 ☐/ ☐ Radio
- 14 ☐/ ☐ Television
- 15 ☐/ ☐ Computer- laptop or desktop
- 16 ☐/ ☐ Tablet/Ipads

[And 16 other symbols \[95\]](#)

SECTION 12: ASSETS / ASSETS

Roster: ITEM OWN - %ROSTERTITLE%

generated by multi-select question [ha0](#)

r_asset_own

Please specify other asset that the household owns.

TEXT

ha0_oth

E ha0.Yes.Contains(96)

<p>How many %rostartitle% does your household own?</p> <p>V1 self.InRange(1,100)</p> <p>M1 Answer MUST be more than 0! It was reported that the HH owns the asset. Please verify the number of %rostartitle% owned.</p>	<p>NUMERIC: INTEGER</p> <p>ha0_1</p> <p>-----</p>
<p>Who in your household owns (the majority) of %rostartitle%? Please mention first the one who mainly owns the asset.</p> <p>F age>= \$working_age</p>	<p>MULTI-SELECT: ORDERED, LINKED</p> <p>SOURCE OF CATEGORIES: ROSTER R MEMBERS</p> <p>ha0_3</p>
<p>Who can make decisions about the use or sale of %rostartitle%? Please mention first the one who mainly owns the asset.</p> <p>F age>= \$working_age</p>	<p>MULTI-SELECT: ORDERED, LINKED</p> <p>SOURCE OF CATEGORIES: ROSTER R MEMBERS</p> <p>ha0_5</p>
<p>If you wanted to sell ONLY ONE of the %rostartitle% today, how much would you receive in %currency%?</p> <p>I IF MORE THAN ONE ITEM, REFER TO NEWEST ASSET.</p> <p>V1 ha0_4>0</p> <p>M1 Asset value MUST be more than 0!</p>	<p>NUMERIC: INTEGER</p> <p>ha0_4</p> <p>-----</p>
<p>[S12]END TIME</p>	<p>DATE: CURRENT TIME</p> <p>s12_end_time</p> <p>-----</p>
<p>STATIC TEXT</p> <p>E !IsAnswered(s12_end_time)</p> <p>PLEASE RECORD THE END TIME BEFORE YOU START THE NEXT SECTION</p>	
<p>STATIC TEXT</p> <p>E NumberUnansweredQuestions(section_12)>0</p> <p>ATTENTION! YOU HAVE %unanswered_sec_12% UNANSWERED QUESTIONS REMAINING IN THIS SECTION!</p>	
<p>VARIABLE</p> <p>NumberUnansweredQuestions(section_12)</p>	<p>DOUBLE</p> <p>unanswered_sec_12</p>
<p>VARIABLE</p> <p>Math.Round((s12_end_time - s12_start_time).Value.TotalSeconds / 60,2)</p>	<p>DOUBLE</p> <p>s12_duration</p>

SECTION 13-14: FOOD SECURITY AND DIET DIVERSITY

section_13

[S13]START TIME

DATE: CURRENT TIME

s13_start_time

STATIC TEXT

E !IsAnswered(s13_start_time)

PLEASE RECORD THE START TIME BEFORE YOU START THE SECTION

STATIC TEXT

Identify the person responsible for preparing meals in the household.Explain that you would like to ask some questions about the food that was eaten by the household members in the past 7 days.

Start asking questions about subjective food availability questions.

Continue asking questions about the types of foods groups that were consumed by the household members in the specified time period.

Who is responding for this section?

SINGLE-SELECT: LINKED
SOURCE OF CATEGORIES: ROSTER [R MEMBERS](#)

s13_respondent

F age >= 15

SECTION 13-14: FOOD SECURITY AND DIET DIVERSITY FOOD INSECURITY EXPERIENCE SCALE

During the last 12 months, was there a time when, because of lack of money or other resource s anyone in your household:

MULTI-SELECT: YES/NO

food_security

- 01 ☐/ ☐ ... was worried about not having enough food to eat?
- 02 ☐/ ☐ ... was unable to eat healthy and nutritious foods?
- 03 ☐/ ☐ ... ate only a few kinds of foods?
- 04 ☐/ ☐ ... had to skip a meal?
- 05 ☐/ ☐ ... ate less than you thought you should?
- 06 ☐/ ☐ ... ran out of food?
- 07 ☐/ ☐ ... was hungry but did not eat?
- 08 ☐/ ☐ ... went without eating for a whole day?

[food_sufficient] How many months during the past 12 months,did your household had sufficient food from own production?

NUMERIC: INTEGER

food_sufficient

[food_sufficient2] How many months during the past 12 months,did your household had sufficient food from own production and bought and other means of getting food?

NUMERIC: INTEGER

food_sufficient2

<p>[food_sufficient3] How many months during the past 12 months, did your household experience shortage of food?</p> <p>V1 self.InRange(0,12)</p> <p>M1 Check the number of months it must be 0-12</p>	<p>NUMERIC: INTEGER</p> <p>food_sufficient3</p> <p>-----</p>
<p>[food_sufficient4] Which of the months your household experienced shortage of food?</p> <p>E food_sufficient3 > 0</p> <p>V1 self.Count()==food_sufficient3</p> <p>M1 The number of months selected and the number of months specified in the previous question are NOT equal!</p>	<p>MULTI-SELECT: ORDERED</p> <p>food_sufficient4</p> <p>01 <input type="checkbox"/> January</p> <p>02 <input type="checkbox"/> February</p> <p>03 <input type="checkbox"/> March</p> <p>04 <input type="checkbox"/> April</p> <p>05 <input type="checkbox"/> May</p> <p>06 <input type="checkbox"/> June</p> <p>07 <input type="checkbox"/> July</p> <p>08 <input type="checkbox"/> August</p> <p>09 <input type="checkbox"/> September</p> <p>10 <input type="checkbox"/> October</p> <p>11 <input type="checkbox"/> November</p> <p>12 <input type="checkbox"/> December</p>

SECTION 13-14: FOOD SECURITY AND DIET DIVERSITY

DIETARY DIVERSITY - 7 DAYS

<p>In the last 7 days, did your household consume any</p> <p>I It is not necessary to read out to the respondent the exact name of the food group, but simply ask (for example) about fruits, vegetables or tubers.</p> <p>V1 self.Missing.Length==0</p> <p>M1 You havent answered all the questions</p>	<p>MULTI-SELECT: YES/NO</p> <p>food_groups_7d</p> <p>01 <input type="checkbox"/>/ <input type="checkbox"/> Cereals- rice, maize, chapatti, wheat, sorghum, bread, etc</p> <p>02 <input type="checkbox"/>/ <input type="checkbox"/> Roots and tubers- potato, sweet potato, cassava, arrow roots, cooking banana</p> <p>03 <input type="checkbox"/>/ <input type="checkbox"/> Vegetables- spinach, pumpkin, cabbage, tomato, onion</p> <p>04 <input type="checkbox"/>/ <input type="checkbox"/> Fruits- orange, mango, guava, rice paw paw/papaya, pineapple, etc</p> <p>05 <input type="checkbox"/>/ <input type="checkbox"/> Meat, poultry, organ meat- goat, sheep, cow, chicken, liver, kidney, intestines</p> <p>06 <input type="checkbox"/>/ <input type="checkbox"/> Eggs</p> <p>07 <input type="checkbox"/>/ <input type="checkbox"/> Fish and seafood (dried or fresh)- sardines, dagaa/omena</p> <p>08 <input type="checkbox"/>/ <input type="checkbox"/> Pulses, legumes, nuts, seeds</p> <p>09 <input type="checkbox"/>/ <input type="checkbox"/> Milk and milk products - fresh, powdered, yogurt, cheese, etc.</p> <p>10 <input type="checkbox"/>/ <input type="checkbox"/> Oil/fats- oil, fat, butter, ghee, etc.</p> <p>11 <input type="checkbox"/>/ <input type="checkbox"/> Sugar and sweets- sugar, honey, sweets, desserts</p> <p>12 <input type="checkbox"/>/ <input type="checkbox"/> Miscellaneous- tea, coffee, beverages, condiments, spices</p>
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Roster: NEW ROSTER - %ROSTERTITLE%

generated by multi-select question [food_groups_7d](#)

r_food_ind

<p>How many days in the last 7 days was the %ros tertitle% consumed?</p> <p>E food_groups_7d.Yes.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12)</p> <p>W1 self.InRange(1,7)</p> <p>M1 Check the number of days. It MUST be more than 0 but less than 7 days!</p>	<p>NUMERIC: INTEGER numdays_7d</p> <p>-----</p>
<p>How was %rosteritle% obtained/sourced?</p> <p>E food_groups_7d.Yes.ContainsAny(1,2,3,4,5,6,7,8,9,10,11,12)</p>	<p>MULTI-SELECT: ORDERED food_source_7d</p> <p>01 <input type="checkbox"/> Own production (crops, animals)</p> <p>02 <input type="checkbox"/> Hunting, fishing</p> <p>03 <input type="checkbox"/> Gathering</p> <p>04 <input type="checkbox"/> Borrowed</p> <p>05 <input type="checkbox"/> Purchased with wages</p> <p>06 <input type="checkbox"/> Exchanged labor for food</p> <p>07 <input type="checkbox"/> Exchanged items for food</p> <p>08 <input type="checkbox"/> Gift (food) from relatives</p> <p>09 <input type="checkbox"/> Food aid (NGOs, others)</p> <p>96 <input type="checkbox"/> Other, specify</p>
<p>Please specify other way how you source out the food.</p> <p>E food_source_7d.Contains(96)</p>	<p>TEXT foos_source_oth</p> <p>-----</p>

[S13] END TIME

DATE: CURRENT TIME s13_end_time

STATIC TEXT

E !IsAnswered(s13_end_time)

PLEASE RECORD THE END TIME BEFORE YOU START THE NEXT SECTION

STATIC TEXT

E NumberUnansweredQuestions(section_13)>0

ATTENTION! YOU HAVE %unanswered_sec_13% UNANSWERED QUESTIONS REMAINING IN THIS SECTION!

<p>VARIABLE</p> <p>NumberUnansweredQuestions(section_13)</p>	<p>DOUBLE unanswered_sec_13</p>
<p>VARIABLE</p> <p>Math.Round((s13_end_time - s13_start_time).Value.TotalSeconds / 60,2)</p>	<p>DOUBLE s13_duration</p>

SECTION 15: HOUSEHOLD SHOCKS AND COPING

section_15

[S15]START TIME	DATE: CURRENT TIME s15_start_time
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STATIC TEXT

E !IsAnswered(s15_start_time)

PLEASE RECORD THE START TIME BEFORE YOU START THE SECTION

In the last 12 months, has your household been affected by any of the following events?

V1 self.Missing.Length==0

M1 You havent answered all the questions!

MULTI-SELECT: YES/NO sh

- 21 ☐ COVID-19 lockdown measures
- 22 ☐ Fallen sick of COVID-19
- 23 ☐ Household member died of COVID-19 (report number of persons)
- 01 ☐ Chronic or severe illness or accident of a household member
- 02 ☐ Death of a household member
- 03 ☐ Household member jailed
- 04 ☐ Fire on property
- 05 ☐ Robbery/burglary
- 06 ☐ Dwelling damaged
- 07 ☐ Drought or extended period of no rain
- 08 ☐ Floods
- 09 ☐ Crop failure, crop diseases or pest infestation
- 10 ☐ Livestock disease/death
- 11 ☐ Livestock theft (including raids)
- 12 ☐ Household business failure (non-agricultural)
- 13 ☐ Loss of employment

And 8 other symbols [82]

Specify Other shock

E sh.Yes.Contains(96)

TEXT sh_oth

SECTION 15: HOUSEHOLD SHOCKS AND COPING
Roster: SHOCK - %ROSTERTITLE%
generated by multi-select question sh

r_shocks

How severe was the effect of %rostartitle% on your household?

SINGLE-SELECT sh_2

- 01 ☐ Very severe
- 02 ☐ Severe
- 03 ☐ Mild
- 04 ☐ Very mild

<p>How did your household cope with %rostartitle %?</p>	<div> <div>MULTI-SELECT: ORDERED</div> <div>sh_3</div> </div> <div> <div>01</div> <div><input type="checkbox"/> Unconditional help from relatives/friends</div> </div> <div> <div>02</div> <div><input type="checkbox"/> Unconditional help from government</div> </div> <div> <div>03</div> <div><input type="checkbox"/> Reduced food or relied on less preferred option</div> </div> <div> <div>04</div> <div><input type="checkbox"/> Changed cropping practices (crop choices or technology)</div> </div> <div> <div>05</div> <div><input type="checkbox"/> Household member(s) took on more employment</div> </div> <div> <div>06</div> <div><input type="checkbox"/> Household member(s) migrated</div> </div> <div> <div>07</div> <div><input type="checkbox"/> Relied on savings</div> </div> <div> <div>08</div> <div><input type="checkbox"/> Received insurance pay out</div> </div> <div> <div>09</div> <div><input type="checkbox"/> Obtained credit (from formal institutions or friends)</div> </div> <div> <div>10</div> <div><input type="checkbox"/> Sold household assets</div> </div> <div> <div>11</div> <div><input type="checkbox"/> Sold livestock</div> </div> <div> <div>12</div> <div><input type="checkbox"/> Migrated to another place</div> </div> <div> <div>13</div> <div><input type="checkbox"/> Reported the case to police/authorities</div> </div> <div> <div>14</div> <div><input type="checkbox"/> Did nothing</div> </div> <div> <div>96</div> <div><input type="checkbox"/> Used other coping strategies</div> </div>
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SECTION 16: INSTITUTIONS, OTHER INCOME, FUTURE CONTACT

section_16

[S16]START TIME

DATE: CURRENT TIME

s16_start_time

STATIC TEXT

E !IsAnswered(s16_start_time)

PLEASE RECORD THE START TIME BEFORE YOU START THE SECTION

Have you or any member of the household received extension service, advice, or information through mobile phone?

SINGLE-SELECT

phone_extension

- 01 ☐ Yes
00 ☐ No

How much was your savings last month? Enter 0 if no savings.

NUMERIC: INTEGER

saving_hmuch

What is the walking time to the main market (in minutes)?

NUMERIC: INTEGER

market_maidist

V1 self>0

M1 Distance to the main market MUST be more than 0!

What is the walking time to the nearest village market? (in minutes)

NUMERIC: INTEGER

market_neardist

V1 self>0

M1 Distance to the main market MUST be more than 0!

Did you or any members of the household use a mobile money account (e.g. MPESA) for savings or other transactions in the last 12 months?

SINGLE-SELECT

phone_money

- 01 ☐ Yes
00 ☐ No

How often do you or any members of the household use internet, including social networking sites such as Facebook, Whatsapp, etc.?

SINGLE-SELECT

internet_freq

- 01 ☐ Daily
02 ☐ At least once or few times a week
03 ☐ At least once or few times a month
04 ☐ Never

During the last 12 months, did any members of your household receive any income from the following sources?

V1 self.Missing.Length == 0
M1 You have not answered all the questions. Please check.

MULTI-SELECT: YES/NOothhhinc

01

☐/ ☐

National remittances - cash transfers/gifts from individuals (relatives, friends) within the country

02

☐/ ☐

International remittances - cash transfers/gifts from individuals (relatives, friends) from abroad

03

☐/ ☐

Savings, interest or other investment income

04

☐/ ☐

Rental income, residential property (apartment, house)

05

☐/ ☐

Rental income, commercial property (shop, store)

06

☐/ ☐

Income from SALE of property (e.g. land, do not include rental income)

07

☐/ ☐

Transfers support from government/NGOs (some kind of public/NGO transfer program (given money in daily/weekly/ monthly basis)

08

☐/ ☐

Payments for environmental/ecological services or forest products or nature conservation e.g., payments by the conservancies

96

☐/ ☐

Other → specify:

Please specify other income source.

E othhhinc.Yes.Contains(96)

TEXTothhhinc_oth

SECTION 16: INSTITUTIONS, OTHER INCOME, FUTURE CONTACT
Roster: OTHERINCOME - %ROSTERTITLE%
generated by multi-select question othhhinc

r_otherincome

If yes, approximately how much in a year was the average earning for %rosteritle%?

V1 self >0
M1 Average income per year for the source MUST be more than 0! It was previously reported that the HH received income from the source.

NUMERIC: INTEGERinc_oth_amt

STATIC TEXT

In order for us to be able to contact you in the future, please provide us with telephone numbers where each household member can be reached.

SECTION 16: INSTITUTIONS, OTHER INCOME, FUTURE CONTACT
Roster: CONTACT INFORMATION - %ROSTERTITLE%
generated by list question numfamily

r_contact

E age>15

Does %rosteritle% have their own phone number?	SINGLE-SELECT 01 <input type="radio"/> Yes 00 <input type="radio"/> No	memeber_isphone
WRITE PHONE NUMBER I record number without the country code. eg. 0813435234 E memeber_isphone==1	TEXT 	phone_number

STATIC TEXT		
<i>We thank you for the time and patience you spent with us! Again, we ensure you that the information you provided will be held confidential and only be used for research purposes. Those information are very valuable for shaping the programs and policies in Kenya and globally for agricultural and pastoral communities. Asante sana!</i>		
[S16]END TIME	DATE: CURRENT TIME	s16_end_time
.....		

STATIC TEXT		
E !IsAnswered(s16_end_time)		
PLEASE RECORD THE END TIME BEFORE YOU START THE NEXT SECTION		

STATIC TEXT		
E NumberUnansweredQuestions(section_16)>0		
ATTENTION! YOU HAVE %unanswered_sec_16% UNANSWERED QUESTIONS REMAINING IN THIS SECTION!		

VARIABLE NumberUnansweredQuestions(section_16)	DOUBLE	unanswered_sec_16
VARIABLE Math.Round((s16_end_time - s16_start_time).Value.TotalSeconds / 60,2)	DOUBLE	s16_duration

APPENDIX A — INSTRUCTIONS

- [1] **emp_member:** In the last 12 months, has **%s1_member_name%** undertaken any work on own farm or outside?
Primary occupation is determined by the amount of time spent on any activity. If a member has two occupations, firstly maize farming where most of the time is spent and secondly livestock raising where a couple of hours is spent. Accordingly, the primary occupation falls under crop farming/cultivation. At least one member of the household should be involved in income-generating activity.
- [2] **cp07:** Did you apply any ORGANIC FERTILIZERS (e.g. manure, vermiculture, worms) in the cultivation of **%rosteritle%** in last 12 months?
Organic fertilizer is a type of fertilizer made from natural materials such as animal waste (manure), compost, bone meal, and other organic matter. It is used to enhance soil fertility and promote plant growth. Organic fertilizers release nutrients gradually over time and improve soil structure, leading to better water retention and increased biodiversity in the soil.
- [3] **cp08:** Did you apply any INORGANIC FERTILIZERS in the cultivation of **%rosteritle%** in the last 12 months?
An inorganic fertilizer is a type of fertilizer that does not contain organic matter and is derived from mineral sources such as nitrates, phosphates, and potash. Inorganic fertilizers are often highly concentrated and contain essential plant nutrients in a form that can be readily absorbed by plants. They are widely used in commercial agriculture, but can also be used in subsistence farming. Examples of inorganic fertilizers include ammonium nitrate, urea, and superphosphate.
- [4] **cp09:** Did you apply any PESTICIDE in the cultivation of **%rosteritle%** in the last 12 months?
A pesticide is a chemical substance used to control, eliminate, or prevent the growth and spread of harmful insects, rodents, and other pests that cause damage to crops. These chemicals can be either synthetic or natural and are formulated to work in various ways, including killing the pest directly, repelling them, or altering their biology or behavior to prevent them from causing damage. Pesticides can come in many forms, including sprays, baits, and fumigant.
- [5] **avaliabe_member:** Among the following members, who is available for interview ?
Please ask for ONE MEN AND WOMEN of the household, preferably the head and his/her spouse (e.g. husband and wife). In case the member is not present or available for interview, we ask for other male/female member of similar age who is involved in farm activities. The SAME selected MEN and WOMEN members will be asked for the other sections requiring both gender interviews such as GENDER ROLES AND TIME ALLOCATION SECTION. ONE OF THE SELECTED MEMBER MUST BE THE RESPONDENT.
- [6] **t1_resp:** Who will watch the video and play game?
<u>Enumerator</u>: In treatment group 1 (T1), ONLY the HEAD of the household should watch the video. Hence, only one member MUST watch the video. In case the member is not present or available for interview, we ask for other male/female member of similar age who is involved in farm activities. The SAME selected MEN and WOMEN members will be asked for the other sections requiring both gender interviews such as GENDER ROLES AND TIME ALLOCATION, ASPIRATION SECTIONS. ONE OF THE SELECTED MEMBER MUST BE THE RESPONDENT.
- [7] **t2_resp:** Who will watch the video and play game?
<u>Enumerator</u>: In treatment group 2 (T2), BOTH HEAD AND SPOUSE (e.g., husband and wife) should watch the video. Hence, two members both men and women MUST watch the video. In case the member is not present or available for interview, we ask for other male/female member of similar age who is involved in farm activities. The SAME selected MEN and WOMEN members will be asked for the other sections requiring both gender interviews such as GENDER ROLES AND TIME ALLOCATION, ASPIRATION SECTIONS. ONE OF THE SELECTED MEMBER MUST BE THE RESPONDENT.
- [8] **control_resp:** Who will play the game?
<u>Enumerator</u>: In the control group, NO VIDEO is shown, and ONLY the HEAD should play the game. Hence, only one member preferably HH head MUST watch play game. In case the member is not present or available for interview, we ask for other male/female member of similar age who is involved in farm activities. The SAME selected MEN and WOMEN members will be asked for the other sections requiring both gender interviews such as GENDER ROLES AND TIME ALLOCATION, ASPIRATION SECTIONS. ONE OF THE SELECTED MEMBER MUST BE THE RESPONDENT.
- [9] **will_prosopis_eradicate:** To what extent do you want to eradicate Prosopis?
Completely eradicate - I want to eliminate all prosopis from the area, regardless of the potential consequences or impacts on other ecosystems
Targeted eradication - I want to remove prosopis from specific areas where it is causing significant problems, but not necessarily eliminate it completely
Limited control - I want to reduce the population of prosopis in the area, but not necessarily eliminate it entirely
No action - I do not believe prosopis is causing significant problems and do not see the need to take any action to eradicate it
Sustainable management - I want to manage the population of prosopis in a way that balances its potential negative impacts with its positive contributions to the ecosystem

APPENDIX B — CATEGORIES

[1] [martial_c](#)

Categories: 1:Married monogamously, 2:Married polygamously, 3:Divorced /Separated, 4:Widow/ Widower, 5:Never Married

[2] [yes_no](#)

Categories: 1:Yes, 0:No

[3] [mgrt_int](#)

Categories: 1:Yes permanently migrate, 2:Yes temporarily migrate, 3:No intention to migrate, -88:Don't know, -99:Refuse to answer

[4] [dist_name](#)

Categories: 31:Kilombero, 32:Ulanga, 33:Kilolo, 34:Iringa, 35:Malinyi, 11:Katima Mulilo Rural, 12:Kabbe North, 13:Sibbinda, 14:Judea Lyaboloma, 15:Kongola, 16:Kabbe South, 17:Linyanti, 41:Churo, 42:Marigat, 43:Mondi, 44:Makutani, 45:Tangulbei, 21:Sesheke, 22:Mwandi, 23:Sioma

[5] [ea_name](#)

Categories: 11101:Liselo, 11102:Mafuta 1, 11103:Mafuta 2, 11104:Bukalo A, 11105:Bukalo B, 11106:Chabalala, 11107:Mafuta 4, 11108:25-26 Miles, 11109:27-28 Miles, 11110:Mafuta 3, 11111:Miyako, 11112:Ioma, 11201:Imukusi, 11202:Chaze, 11203:Lisikili-Kalimbeza, 11204:Ntonda, 11205:Namyundu, 11206:Libula, 11301:Sibbinda 1, 11302:Sibbinda 2, 11303:Bito, 11304:Masokotwane, 11305:Lusu, 11306:Kakoma, 11307:Sachinga, 11308:Makolanga, 11401:Sachona, 11402:Lianshulu 1, 11403:Lianshulu 2, 11404:Nongozi, 11405:Mbambazi, 11501:Gesthemane, 11502:Mawizyu, 11503:Mayuni, 11601:Kalala, 11602:Impalila North, 11603:Impalila South, 11604:Nakabolelwa, 11605:Ngoma, 11606:Makoma, 11607:Itomba, 11608:Kasika, 11609:Libula South, 11701:Sitanta, 11702:Malengalenga 1, 11703:Malengalenga 2, 33401:Mwatenga, 33402:Uwanja wa Ndege 'B', 33403:Sokoni, 33404:Igula 'A' & Sekuse, 33405:Kifufu, 33406:Kibalali, 33407:Kihesa Kilolo & Milanzi, 33408:Ukang'a & Mlanda 'B', 33409:Malawi & Migoli 'B', 33410:Mivinjeni, 33411:Matalawe, 33412:Sadani 'A', 33413:Lukolela, 33414:Kigasi 'A' & Kigasi 'B', 33415:Mwefu & Nganawasi, 33416:Vikula, 33417:Mahanzi & Kibulilo, 33418:Luganga, 33419:Mbuyuni, 33420:Zagaza 'A' & 'B', 33421:Mseke 'A', 33301:Ibumila, 33302:Mkulima, 33303:Ibofwe & Lutwina, 33304:Muhiliwa & Kihoroto, 33305:Ulyakadodo, 33306:Mjimwema, 33307:Isengavakiva, 33308:Wotalisoli, 33309:Mwanzi, 33101:Mlumbaji 'A', 33102:Ihanga, 33103:Idandu, 33104:Kilama A, 33105:Maendeleo, 33106:Minazini, 33107:Mbalaji, 33108:Kidatu A, 33109:Kikandekande, 33110:Mwamaloba, 33111:Shuleni, 33112:Kibugumo, 33113:Londo, 33114:Kibulubutu, 33115:Mkusi, 33116:Relini, 33117:Msufini, 33101:Kisiwani, 33501:Ipera Asilia, 33102:Kichangani Kati, 33203:Kiningu, 33502:Kipingo A, 33503:Mchangani A, 33504:Mikoroshini, 33204:Msogezi 'B', 33506:Mashariki, 33507:Chalula, 33508:Barabarani, 33118:Kidatu B, 33509:Saganotia, 44201:Kamungei, 44202:Kiwanja Ndege, 44203:Kapkun South, 44204:Kaptich, 44205:Ndubet, 44206:Sirinyo, 44207:Chemeron Upper, 44208:Ilkarkar, 44209:Marti, 44210:Sesia, 44211:Nairangi Nkare, 44212:Lesua, 44213:Nkoipiriri, 44214:Nailiapu, 44215:Twetye, 44216:Chepkerkeren, 44217:Maji Ndege, 44218:Tirngongwonin, 44219:Kewamur, 44401:Eletepes, 44402:Nenteiyo, 44101:Cheptaran, 44102:Marigat, 44103:Nyalilpich, 44104:Chepngotiny, 44105:Churo Centre, 44106:Chepelow, 44107:Kaptuya, 44108:Kadia, 44301:Kaitunga, 44302:Markasian, 44303:Chemiril, 44304:Ademeyon, 44305:Mosoin, 44306:Chepkokoch, 44307:Lumuyek, 44501:Komolion, 44502:Modok, 44503:Chepukat, 44504:Relenoi, 44505:Pombo, 44506:Sosion, 44507:Chemakutach, 44508:Lochel/Kang'iruru, 44509:Seretion, 44220:Ilngeriyoi, 44221:Chepkech, 22101:Imusho, 22102:Kalobelelwa1, 22103:Kalobelelwa2, 22104:Katima 1, 22105:Katima 2, 22106:Luampungu 1, 22107:Luampungu 2, 22108:Lusu 1, 22109:Lusu 2, 22110:Silumbu, 22201:Mushukula, 22202:Magumwi, 22203:Simungoma, 22204:Kalundu, 22301:Kalongola 1, 22302:Kalongola 2, 22304:Liwandamo 1, 22305:Liwandamo 2, 22306:Mbeta, 22307:Mbume 1, 22308:Mbume 2, 22309:Nalwashi 1, 22310:Nalwashi 2, 22311:Nangweshi 1, 22312:Nangweshi 2, 22314:Sikabenga 3, 22315:Sikabenga 1, 22316:Sikabenga 2, 22317:Sioma 1, 22318:Sioma 2

[6] [decision_maker](#)

Categories: 1:Husband only, 2:Husband > Wife (Husband dominates), 3:Both equally husband and wife, 4:Wife > Husband (Wife dominates), 5:Wife only, 6:Son/Son-in-law, 7:Daughter/Daughter-in-law, 8:Father/Father-in-law, 9:Mother/Mother-in-law, 10:Brother/Brother-in-law, 11:Sister/Sister-in-law, 12:Grandson, 13:Granddaughter, 14:Grandfather, 15:Grandmother, 16:Other male members, 17:Other female members

[7] [seed_source_ch](#)

Categories: 1:Used my own from previous season, 2:Bought from neighbours, 3:Bought from agroveter shop, 4:Bought from mobile agro dealer, 5:Bought from warehouse/godown, 6:Bought from commercial farm, 7:Bought from government, 8:Bought from NGO, 9:Provided free of charge from NGO, 10:Bought from farmer association, 96:Bought from other source

[8] [month](#)

Categories: 1:January, 2:February, 3:March, 4:April, 5:May, 6:June, 7:July, 8:August, 9:September, 10:October, 11:November, 12:December

[9] [rice_cul](#)

Categories: 1:Bunding only, 2:Bunding and levelling, 3:None of the above

[10] [sever](#)

Categories: 1:Very severe, 2:Severe, 3:Mild, 4:Very mild

[11] [educ2_c](#)

Categories: 1:No formal education, 2:Some primary school, 3:Some secondary school, 4:Some post-secondary school, 5:Other schooling (e.g religious schooling), -88:Dont know, -99:Refuse to answer

[12] [age_grp](#)

Categories: 1:In their 20s, 2:In their 30s, 3:In their 40s, 4:In their 50s, 5:In their 60s, 6:>70

[13] [trust](#)

Categories: 1:strongly distrust, 2:distrust, 3:indifferent, 4:trust, 5:strongly trust

[14] [worry](#)

Categories: 1:Not at all worried, 2:Slightly worried, 3:Worried, 4:Very worried, 5:Extremely worried

[15] [hh_decision_maker](#)

Categories: 1:Husband only, 2:Husband> Wife(Husband dominates), 3:Both equally husband and wife, 4:Wife > Husband (Wife dominates), 5:Wife only, 6:Son/Son-in-law, 7:Daughter/Daughter-in-law, 8:Father/Father-in-law, 9:Mother/Mother-in-law, 10:Brother/Brother-in-law, 11:Sister/Sister-in-law, 12:Grandson, 13:Granddaughter, 14:Grandfather, 15:Grandmother, 16:Other male members, 17:Other female members

[16] [rec_ch](#)

Categories: 1:Massive increase, 2:Slight increase, 3:The same, 4:Slight decrease, 5:Massive decrease

- [17] [ht_symp](#)
Categories: 1:Never, 2:Less than once a month, 3:More than once per month, 4:More then once per week, 5:Every day
- [18] [ethinc_group](#)
Categories: 1:Ilchamus, 2:Pokot, 3:Tugen, 4:Bena, 5:Hehe, 6:Lozi, 7:Lozi, 8:Mafwe, 9:Subia, 96:Other, 96:Other, 96:Other, 96:Other
- [19] [contr_type](#)
Categories: 1:Long term permanent contract, 2:Fixed term permanent contract, 3:Part-time contract, 4:Daily wage labourer, 5:No contract (informal), 6:Self-employed/ own firm, 7:Volunteering, 8:Apprenticeship / internship, 96:Other (specify), -88:Do not know, -99:Refuse to answer
- [20] [cook](#)
Categories: 1:Electric cookers, 2:Gas (incl. biogas), 3:Charcoal, 4:Firewood, 5:Other biomass burning, 96:Any other energy for cooking
- [21] [disp_reslv](#)
Categories: 1:Nowhere, 2:Clan / Elder, 3:Village headman / chairperson, 4:Neighbours, 5:LC Court, 6:Magistrate, 7:Tried to sort out ourselves, 96:Other (please specify)
- [22] [dispute](#)
Categories: 1:Within family, 2:Other individuals, 3:Government, 96:Other ➡ Please specify
- [23] [fert_type](#)
Categories: 1:UREA, 2:DAP, 3:SA, 4:CAN, 5:NPK, 6:Mijingu, 7:Agr. Lime, 8:Foliar fertilizer, 9:Yara Vera Amidas, 10:YaraMila Otesha, 11:Yara Bela Can, 12:YaraBela Sulfan, 13:Yara Mila Unik17, 14:Yara Mila Cereal, 15:Yara Mila Winner, 16:Yara Liva Nitrabor, 17:Kynoch +, 96:Other ➡ Please specify
- [24] [floor](#)
Categories: 1:Sand, 2:Smooth earth (soil), 3:Cement screed, 4:Wood, 5:Ceramic or other tiles, 96:Other ➡ Please specify
- [25] [frt_source](#)
Categories: 1:Bought from agrovet shop, 2:Bought from mobile agro dealer, 3:Bought from warehouse/godown, 4:Bought from large private company or farm, 5:Bought from government, 6:Bought from NGO, 7:Provided free of charge from NGO, 8:Bought from farmer association, 96:Other ➡ Please specify, -88:I don't know the brand(s), -99:Refuse to answer
- [26] [ft_dispute](#)
Categories: 1:Very unlikely, 2:unlikely, 3:Maybe, maybe not, 4:Likely, 5:Very likely
- [27] [grazing_area_codes](#)
Categories: 1:Within vicinity of own house (e.g. ranch, feedlot system), 2:Within village, 3:In other village within the region, 4:In other village outside the region, 5:In town/cities, 96:Other ➡ Please specify
- [28] [grazing_provider](#)
Categories: 1:Other farmer, 2:Government, 3:Producer/Farmers/Pastoralists Groups and Cooperatives, -88:Don't know
- [29] [herb_typ](#)
Categories: 1:Pre-planting herbicide, 2:Post-planting herbicide, 3:Insecticides, 4:Fungicides, 5:Botanicals (eg neem), 6:Nematicide, 96:Other pesticide ➡ Please specify, -88:I don't know the brand(s), -99:Refuse to answer
- [30] [hwcdamg](#)
Categories: 1:Crop damage, 2:Loss of livestock, 3:Destruction of property, 96:Other damage ➡ Please specify
- [31] [income_use](#)
Categories: 1:Food expenditures, 2:Clothing and footwear, 3:House furnishings and appliances, construction and reconstruction, 4:Health related expenses, 5:House expenses like water, electricity, gas, fuel, 6:Transportation, 7:Communication, 8:Recreation and culture like vacation, weddings, festivals, celebrations, 9:Education, 10:Savings, 11:Loan repayment, 12:Buying agricultural inputs, 13:Hiring farm labourers, 14:Buying/renting farm equipment, 15:Buying livestock, 16:Buying agricultural land, 17:Buying residential house/lot, 18:Establishing non-farm business like kiosk, stores, 96:Other ➡ Please specify
- [32] [invasive_mgmt](#)
Categories: 1:Use of natural enemies/sugars and soups that attracts natural enemies, 2:Early planting, resistant varieties, 3:Intercropping, 4:Crop rotation, 5:Use of pesticides, 6:Crop diversification, 7:Hand-picking and crushing egg masses/caterpillars, 8:Sand and ash, 9:Other, please mention, 1:Weeding, 2:Use of herbicides, 3:Intensive cultivation, 4:Other, 1:Cutting the trees, 2:Burning, 3:Uprooting seedlings and trees, 4:Pruning the trees
- [33] [ld_cl_pps](#)
Categories: 1:Crops, 2:Grazing, 3:Buildings, 96:Other ➡ Please specify
- [34] [light](#)
Categories: 1:Electricity, 2:Solar, 3:Gas (biogas), 4:Lamp oil, 5:Candle, 6:Firewood, 7:Private generator, 8:Torch, 96:Any other energy for lighting
- [35] [lnd_mes_c](#)
Categories: 1:Acres, 2:Hectares, 96:Other ➡ Please specify
- [36] [loan_purpose_codes](#)
Categories: 1:Food expenditures, 2:Clothing and footwear, 3:House furnishings, construction and reconstruction, 4:Health and related expenses, 5:House expenses like water, electricity, gas, fuel, 6:Recreation and culture like vacation, weddings, festivals, celebrations, 7:Education of children, 8:Repayment of other loans, 9:Buying agricultural inputs, 10:Hiring farm labourers, 11:Buying/renting farm equipment, 12:Buying livestock, 13:Buying agricultural land, 14:Buying residential house/lot, 15:Establishing non-farm business, 96:Other ➡ Please specify
- [37] [market_buyer_codes](#)
Categories: 1:Direct buyers, open-air market, 2:Brokers, middlemen, traders, 3:Cooperatives, farmers associations, groups, 4:Large-

scale/commercial farmers, 5:Lodges, hostels, restaurants, tourist enterprises, 6:Government, 96:Other ➡ Please specify

[38] [mgrt](#)

Categories: 1:From another village in this district (sub-county), 2:From another district (sub-county) in this region, 3:From another region in Kenya, 4:From another country, -88:Don't know, -99:Refuse to answer

[39] [rc_culbar](#)

Categories: 1:Lack of cash/credit, 2:limited availability of labor, 96:Other ➡ Please specify

[40] [rice_cul2](#)

Categories: 1:Bunding only, 2:Bunding and levelling

[41] [roof](#)

Categories: 1:Iron sheets, 2:Tiles, 3:Asbestos, 4:Concrete, 5:Tin, 6:Thatched grass, 96:Other ➡ Please specify

[42] [toilet](#)

Categories: 1:Flush toilet, 2:VIP latrine, 3:Covered pit latrine with slab, 4:Covered pit latrine without a slab, 5:Uncovered pit latrine, 6:Ecosan toilet, 7:No facility/Bush/polythene, 96:Other ➡ Please specify

[43] [wall](#)

Categories: 1:Grass, 2:Mud with poles, 3:Unburnt bricks with mud, 4:Bricks with cement, 5:Concrete, 6:Wood, 7:Tin/iron sheets/mabaati, 96:Other ➡ Please specify

[44] [wk](#)

Categories: 1:First week, 2:Second week, 3:Third week, 4:Fourth week

[45] [water](#)

Categories: 1:Piped water (house or public), 2:Protected (borehole protected well public taps rain water), 3:Unprotected source (well spring river lake tank truck), 96:Other, Specify

[46] [eco_mgmt_tech](#)

Categories: 1:Use of natural enemies/ sugars and soups that attracts natural enemies, 2:Early planting, resistant varieties, 3:Intercropping, 4:Crop rotation, 5:Weeding, 6:Use of pesticides or chemical agents, 7:Crop diversification, 8:Intensive cultivation, 9:Handpicking and crushing egg masses/ caterpillars, 10:Sand and ash, 11:Cutting the trees, 12:Burning, 13:Uprooting seedlings and trees, 14:Pruning, 15:Do nothing, 96:Others, specify

[47] [effect](#)

Categories: 1:Very negative effect, 2:Negative effect, 3:Neutral (or no effect), 4:Positive effect, 5:Very positive effect

[48] [mgrt_des](#)

Categories: 1:Town in region, 2:Town outside region, 3:Capital city, 4:Outside the country, 5:Village in region, 6:village outside region, 96:Other, Specify, -88:Don't know, -99:Refuse to answer

[49] [sd_typ](#)

Categories: 1:Traditional seeds, 2:Improved seeds, 3:Hybrid seeds

[50] [market_buyer_loc](#)

Categories: 1:Market in this village, 2:Rural market in neighbouring other village, 3:Urban market (town) in this region, 4:Large city market in this or other region, 5:Directly at the farm, 6:Directly at the homestead

[51] [seed_source](#)

Categories: 1:Farm saved seed (own), 2:Farm-produced seed (own), 3:Contract grower (e.g. Kenya seeds, etc.), 4:Agri input shop, 5:Neighbour farmers in village, 6:Neighbour farmers outside village, 7:Grain millers, 8:Grain, seed, paddy traders, 9:Department, government, 10:NGOs, research institutions, 11:Cooperatives, self-help groups (SHGs), 96:Others, specify

[52] [seed_obtain_way](#)

Categories: 1:Given for free, 2:Bought, 3:Exchanged with labour, 4:Exchanged with harvest, 5:Exchanged with other item, 96:Others, specify

[53] [units_seed](#)

Categories: 1:Grams, 2:Kilograms, 96:Others, specify

[54] [liv_products_contract](#)

Categories: 1:Live animal, 2:Slaughter animal or meat, 3:Milk, 4:Cheese, 5:Yogurt, 6:Wool, 7:Honey, beeswax, 8:Honeybrew, 9:Eggs, 96:Others, specify

[55] [func](#)

Categories: 1:Government worker, 2:Private extension work (e.g. Kenya seed extensionist, dealers, traders), 3:Religious leader, 4:Village/ Traditional/ Cultural leader, 5:Village elder, 6:Teacher or health worker, 7:Agricultural innovator / model farmer, 8:NGO worker, 9:Friend, 10:Relative, 11:Neighbour, 96:Others, specify

[56] [infosource](#)

Categories: 1:Government extension (in person), 2:Private extension (e.g. Kenya seed extensionist, dealers, traders) (in-person), 3:Religious leader, 4:Village elder, 5:Village elder, 6:NGO (in person), 7:Other farmers (e.g. progressive farmers), 8:Radio, 9:Television, 10:Phone/mobile phone, 96:Others, specify

[57] [group_compose](#)

Categories: 1:None, 2:Less than half, 3>About half, 4:More than half, 5:All

[58] [meeting_loc](#)

Categories: 1:My house, 2:Farm parcel/plot, 3:Other neighboring farmers' house, 4:In Village, 5:Outside village, 6:Main market, 96:Others,

specify

[59] [info_type](#)

Categories: 1:Contract farming, 2:Seeds (e.g. new and improved seeds), 3:Farming or crop cultivation techniques, 4:Charcoal making, 5:Prosopis management, 6:Fertilizer: Type /Application, 7:Pest and Disease Management, 8:Land management (e.g. erosion control, crop rotation), 9:Post-Harvest (storage, drying, processing), 10:Sales / Marketing (e.g. prices), 11:Livestock care and practices (e.g. vaccination), 12:Poultry management, 13:Weather information, 14:Business opportunities, 15:Job fair, free training, 96:Others, specify

[60] [training_provider](#)

Categories: 1:Government office/Department, 2:Private institution or extension (e.g. Kenya seeds, other companies), 3:Cooperative-led, 4:NGO, 5:Universities, 6:International org, 96:Others, specify

[61] [training_loc](#)

Categories: 1:Other neighbouring farmer's house, 2:Within the village, 3:Main market, 4:Outside the village but same sub-location, 5:Outside the village (different sublocation) but same ward, 6:Other ward, 96:Others, specify

[62] [time_use](#)

Categories: 1:Sleeping, napping, resting, 2:Eating and drinking, 3:Personal care, 4:Leisure (e.g. watching TV, listening radio, reading, exercising, hobbies), 5:Attending school, training or studying, school meetings, 6:Work as employed, 7:Own business work, 8:Land preparation, tilling, prosopis removal, 9:Weeding and pest/disease management, 10:Harvesting, 11:Drying, processing farm product, and post-harvest tasks, 12:Large livestock caring, grazing (e.g. cattle, camel), 13:Small livestock (e.g. sheep, goat, pig) caring, grazing, 14:Poultry (e.g. chicken, duck, eggs, turkey) caring, grazing, 15:Fishing, fishpond culture, 16:Beekeeping-related activities, 17:Brewing, winemaking and selling, 18:Marketing crops and crop products, 19:Marketing milk, eggs, and livestock / meat products, 20:Charcoal burning, 21:Construction making furniture, repairing, 22:Driving, 23:Other farming/livestock activities, 24:Other non-farming income-generating activities, 25:Washing drying, clothes ironing, mending clothes, sewing, 26:Cooking food and drink preparation, doing the dishes, 27:Cleaning the house/dwelling, 28:Fuel collection (e.g. firewood, charcoal), 29:Water collection, 30:Caring for children (incl teaching/tutoring/training children), 31:Caring for adults including disabled, ill, elderly, community, 32:Shopping household supplies (incl. food), getting service (e.g. health services), 33:Attending group/committee meetings, 34:Community work (e.g. infrastructure projects or community events, Prosopis removal), 35:Attending community functions (e.g. weddings, funerals), 36:Religious activities, 96:Others, specify

[63] [livestock](#)

Categories: 1:Bulls/Oxens/Steers, 2:Cows/Heifer, 3:Calves - (young female or male cow), 4:Goats, 5:Sheep, 6:Camels, 7:Donkey/Mules, 8:Poultry (chicken, ducks, others), 9:Beehives and other insects (bees, crickets, etc.), 10:Horses, 96:Other livestock or animals for productive uses

[64] [likely](#)

Categories: 1:Very unlikely, 2:Unlikely, 3:Maybe, maybe not, 4:Likely, 5:Very likely

[65] [busi_types](#)

Categories: 1:Crop selling, 2:Livestock selling (including meat, eggs, milk), 3:Fodder/Forage/Grass selling, 4:Running small or grocery shop/kiosk, 5:Honey selling, 6:Wine brewing and selling, 7:Beauty salons (hair, skin, massage), 8:Charcoal production and selling, 9:Weaving basket, 10:Making mats, 11:Making brooms, 12:Gaming hunting, 96:Others, specify

[66] [obtain_how](#)

Categories: 1:They will be allocated land not previously cultivated (virgin land or pasture), 2:They will be allocated family land now under fallow, 3:They will inherit land already under cultivation, 4:They will rent or borrow land, 5:They will purchase land, 96:Others, specify

[67] [sat](#)

Categories: 1:Very dissatisfied, 2:Dissatisfied, 3:Neither, 4:Satisfied, 5:Very satisfied

[68] [invest_acts](#)

Categories: 1:Education of children, 2:Buying agricultural inputs, 3:Hiring farm labourers, 4:Buying/renting farm equipment, 5:Buying livestock, 6:Buying agricultural land, 7:Establishing non-farm business, 8:Bank deposits, savings, 9:Mutual funds, 10:Insurance products, 11:Food expenditures, 12:Clothing and footwear, 13:House furnishings, construction, and reconstruction, 14:Health and related expenses, 15:House expenses like water, electricity, gas, fuel, 16:Recreation and culture like vacation, weddings, festivals, celebrations, 17:Repayment of other loans, 18:Buying residential house/lot, 96:Others, specify

[69] [cope](#)

Categories: 1:Sale of livestock, 2:Sale of land, 3:Sale of other household assets, 4:Sent children to live with relatives, friends, 5:Withdraw children from school, 6:Engaged in additional income-generating activities, 7:Received unconditional help from friends, relatives, family, 8:Borrowed from friends or family, 9:Took a loan or credit, 10:Members of household migrated from work, 11:Put purchases on credit, delayed payments, 12:Sold harvest in advance, 13:Reduced food consumption/ expenses, 14:Reduced non-food consumption/ expenses, 15:Relied more on collecting/ foraging food items from forest/ wild areas, 16:Relied on savings, 17:Took advance payments from employer, 18:Received assistance from government, 19:Received assistance from NGO, 20:Use insurance, 21:Did nothing, 96:Others, specify

[70] [religion_c](#)

Categories: 1:Catholic, 2:Protestant demoninants (incl all non-catholic denominations), 3:Muslim, 4:African Inland Church (AIC), 10:African Traditional religion, 11:Non-religious, 96:Other Please specify, -88:Does not know, -99:Refuse to answer

[71] [group_service_codes](#)

Categories: 1:Access to material inputs (free or non-free seeds, fertilizer, seed, pesticides, etc.), 2:Access to labour (shared labour, pest management, etc.), 3:Output markets (collective buying and selling), 4:Financial or credit services, 5:Advisory or extension services, 6:Training provision, 96:Others, specify

[72] [internet_freq_code](#)

Categories: 1:Daily, 2:At least once or few times a week, 3:At least once or few times a month, 4:Never

[73] [educ_ch](#)

Categories: 0:No formal education, 1:Nursery/ Kindergarten/ECD, 2:Primary 1, 3:Primary 2, 4:Primary 3, 5:Primary 4, 6:Primary 5, 7:Primary 6, 8:Primary 7, 9:Primary 8, 10:Secondary school Year 1, 11:Secondary school Year 2, 12:Secondary school Year 3, 13:Secondary school Year 4, 14:University 1, 15:University 2, 16:University 3, 17:University 4, 18:Post-graduation and higher, 96:Other educational training

[74] [location_codes](#)

Categories: 1:Ilchamus, 2:Ilngarua, 3:Ewalel soi, 4:Kapkuikui, 5:Kimalel, 6:Kimondis, 7:Loboi, 8:Marigat, 9:Ngambo, 10:Salabani, 11:Sandai

- [75] [training_info](#)
Categories: 1:Contract farming, 2:Time and labor-saving machines, 3:Improved or new seeds, 4:New contacts/networks, 5:Crop care practices, 6:Livestock and animal keeping practices, 7:Post-harvest, 8:Prosopis management, 9:Business opportunities, 96:Others, specify
- [76] [liv_products](#)
Categories: 8:Meat, 1:Milk, 2:Cheese, 3:Yogurt, 4:Wool, 5:Honey, beeswax, 6:Honeybrew, 7:Eggs, 96:Others, specify
- [77] [irrig](#)
Categories: 1:Rainfed, 2:Well/ borehole, 3:River, canal, stream, 4:Public water service, 96:Others, specify
- [78] [lnd_use_code](#)
Categories: 1:Cropland, 2:Fallow, 3:Agroforestry, forestry, beehives, 4:Pasture (natural), 5:Pasture (planted), 6:Forest (natural), 7:Forest (planted), 96:Other agricultural land uses(e.g. wetland, fish pond)
- [79] [lndten](#)
Categories: 1:State owned, 2:Private owned with land title, 3:Private owned with no land title, 4:Leased/rented, 5:Contract farming land, 6:Communally or community owned, 7:Co-share/ co-farming, 96:Others, specify
- [80] [crops](#)
Categories: 1:African foxtail grass / Cenchrus ciliaris, 2:Massai love grass / Eragrostis superba, 3:Other forage grass, 4:Banana, 5:Barley, 6:Beans, 7:Butternuts, 8:Cabbage, 9:Coffee, 10:Flowers, 11:Garlic, 12:Green gram, 13:Groundnuts, 14:Maize, 15:Mango, 16:Millet, 17:Onions, 18:Papaya, 19:Potato, 20:Sorghum, 21:Sugarcane / Sugar, 22:Sukuma wiki, 23:Sweet potato, 24:Tee, 25:Tomato, 26:Watermelon, 27:Wheat, 96:Others, specify
- [81] [agree](#)
Categories: 1:Strongly disagree, 2:Disagree, 3:Indifferent (neither nor), 4:Agree, 5:Strongly agree
- [82] [shocks](#)
Categories: 21:COVID-19 lockdown measures, 22:Fallen sick of COVID-19, 23:Household member died of COVID-19 (report number of persons), 1:Chronic or severe illness or accident of a household member, 2:Death of a household member, 3:Household member jailed, 4:Fire on property, 5:Robbery/burglary, 6:Dwelling damaged, 7:Drought or extended period of no rain, 8:Floods, 9:Crop failure, crop diseases or pest infestation, 10:Livestock disease/death, 11:Livestock theft (including raids), 12:Household business failure (non-agricultural), 13:Loss of employment, 14:Large fall in sale prices for crops, 15:Large fall in sale prices for livestock, 16:Large rise in prices of food, 17:Large rise in prices of agricultural inputs (e.g. agrochemicals, machinery, hired labour), 18:Loss of land, 19:End of regular assistance (e.g. Pension, cash transfer, remittances) from outside the household, 20:Ethnic or clan clashes, 96:Other shocks, specify
- [83] [ward_codes](#)
Categories: 1:Ilchamus, 2:Marigat, 3:Mochongoi
- [84] [village_codes](#)
Categories: 1:Barsemoi, 2:Bogoria, 3:Chepkech, 4:Chemeron upper, 5:Eldebe, 6:Ilkateeyo, 7:Ilngieriyoi, 8:Kabikoki, 9:Kaptich, 10:Keper, 11:Korget, 12:Lamargweny, 13:Leseki, 14:Masai, 15:Ntepess, 16:Parleleru, 17:Saruni, 18:Siriangoti, 19:Sokonin, 20:Kamaech, 21:Kamuga, 22:Kapchekendi, 23:Kapchereren, 24:Kapchumo, 25:Kesumonin, 26:Kipkunyangi, 27:Koibokirwok, 28:Maji Ndege, 29:Mokobe, 30:Ngolbelon, 31:Ngosonoik, 32:Sirinyo, 33:Sokoteiwo, 34:Toborwo, 35:Tongururwonin
- [85] [treatment_grp](#)
Categories: 1:Treatment 1 (Only HH head watches video and plays game), 2:Treatment 2 (Both HH head and spouse watch video and play game), 3:Control group (No video, Only HH head plays game)
- [86] [reln_head](#)
Categories: 1:Self/HH head, 2:Spouse, 3:Son, 4:Daughter, 5:Brother, 6:Sister, 7:Father, 8:Mother, 9:Grandson, 10:Granddaughter, 11:Son-in-law, 12:Daughter-in-law, 13:Brother-in-law, 14:Sister-in-law, 15:Grandfather, 16:Grandmother, 17:Nephew, 18:Niece, 19:Other male relative, 20:Other female relative, 21:Other male member, 22:Other female member
- [87] [gender](#)
Categories: 1:Men, 0:Women, 96:Others
- [88] [units](#)
Categories: 1:Grams, 2:Kilograms, 3:Liters, 4:Numbers, 5:Basins, 6:2kg packet, 7:10kg bag, 8:25kg bag, 9:50 kg bag, 10:90 kg bag, 11:100 kg bag, 12:Crates, 13:Bunches, 14:Debe, 15:Wheelbarrow, 16:Bale / Bundle, 17:Tonnes, 18:Canter, 19:Packet (e.g salt, cigarattes), 20:Tins (eg milk tins), 21:Oxcart, 22:Probox, 96:Other (please specify)
- [89] [occup](#)
Categories: 1:Large-scale crop cultivation, 2:Small-scale crop cultivation, 3:Livestock keeping/raising, 4:Pasture farming, 5:Fishing, 6:Agricultural wage labour (hired agricultural labour), 7:Self-employed agribusiness/agrienterprise, 8:Self-employed non-farm business (wholesale/retail trade, etc.), 9:Food industry (e.g. restaurants waiter, cashier), 10:Health (nurse, doctor, etc.), 11:Education/Teacher, 12:Government officers/employees/ civil servant, 13:Other public sector jobs, specify, 14:Factory worker/manufacturing jobs, 15:Construction labour, 16:Transport/Driver, 17:Travel/Tourism, 18:Hospitality (e.g. accommodation, lodging, motels, hotels), 19:Recreation and events, 20:Beauty industry (salons, hair, skin), 21:Security services (security guards), 22:Domestic/household helper, 23:Charcoal burning, production, and selling, 24:Retired/Pensioner, 25:Pastor, religious leaders, 96:Others, specify
- [90] [training](#)
Categories: 1:Crop production, 2:Livestock production, 3:Human nutrition, 4:Prosopis management, 5:Charcoal production, 6:Honeybee production, 7:Brewing, wine/beer making, 8:Entrepreneurship/ business training, 96:Others, specify
- [91] [grazing_change_reason_codes](#)
Categories: 1:Limited or little grass on the land, 2:Invasion of prosopis/parthenium or other invasive species, 3:Many other pastoralists graze there, 4:Ethnic conflicts, 5:Tensions or conflicts with others, 6:Livestock theft, 7:Livestock raiding, 8:No water available, 9:Too far from my home, 10:Expensive permit/rent, 11:None, 13:Does not apply, grazing place same before, 96:Other ➡ Please specify
- [92] [groups](#)
Categories: 1:Agricultural / livestock / fisheries producer's group, 2:Contract growers group, 3:Water users' group or irrigator's association,

4:Forest users' group, 5:Credit or microfinance group or loan, 6:Savings group, self or mutual -help groups (e.g. merry-go-round, table banking), 7:Trade / marketing / business association and groups, 8:Religious group, 9:Men's group, 10:Women's group, 11:Youth group, 13:Parent/ Teacher's / School association, 14:Political party, 96:Other, specify

[93] [emp_offfarm_code](#)

Categories: 1:Large-scale crop cultivation, 2:Small-scale crop cultivation, 3:Livestock keeping, 4:Pasture farming, 5:Food industry (e.g. restaurants waiter, cashier), 6:Health (nurse, doctor, etc.), 7:Education (teacher, etc.), 8:Government officers/employees, 9:Other public sector, specify, 10:Agricultural retail trade/enterprise, 11:Non-farm wholesale or retail trade/enterprise, 12:Factory worker/manufacturing jobs, 13:Construction labour, 14:Transport (driver), 15:Travel/tourism, 16:Hospitality (e.g. accommodation, lodging, motels, hotels), 17:Recreation and events, 18:Beauty industry (salons, hair, skin), 19:Security services (security guards), 20:Domestic/ household helper, 21:Others, specify

[94] [absence_res: If %s1_member_name% has not stayed for 12 months, what is the MAIN reason for absence?](#)

Categories: 1:New arrivals - New born, 2:New arrivals - Returned home from abduction/displacement, 3:New arrivals - To escape insecurity from home area, 4:New arrivals - Bad living conditions at home, 5:New arrivals - To look for work, 6:New arrivals - Other economic reasons, 7:New arrivals - Education, 8:New arrivals - Marriage, 9:New arrivals - Divorce, 10:Members that left - Deceased, 11:Members that left - To escape insecurity from this area, 12:Members that left - Looking for work elsewhere, 13:Members that left - Other economic reasons, 14:Members that left - Illness, 15:Members that left - Education, 16:Members that left - Marriage, 17:Members that left - Divorce, 18:Members that left - Started own household, 19:Members that left - Abducted/disappeared, 96:Members that left - Other (Specify)

[95] [ha0: Does your household own any of these items?](#)

Categories: 1:Smart phones (touch screen), 2:Simple mobile phones (keypad), 3:Cars, vans, 4:Motorcycles /Scooter/ Boda-boda, 5:Bicycle, 6:Buildings (house, motels/hotels, other buildings), 7:Electric Stoves, 8:Gas or Paraffin Stove, 9:Microwave, 10:Refrigerator, 11:Freezer, 12:Washing Machine, 13:Radio, 14:Television, 15:Computer- laptop or desktop, 16:Tablet/Ipads, 17:Living room furniture sets (e.g. sofa), 18:Bedroom furniture sets (e.g. mattress, bed), 19:Donkey cart/ ox cart/ sledges, 20:Farm tractor / machinery, 21:Ploughs, 22:Wheelbarrow, 23:Hoes, 24:Grinding mills, 25:Machetes, 26:Irrigation pump (private deepwell, tubewell, hand or lift pumps, diesel pumps), 27:Farm house, warehouse, 28:Solar panel, 29:Electric generator, 30:Battery bank, 31:Boats, 96:Others, specify

APPENDIX C — VARIABLES

```
[1] part_inst:
country==1? "Kenyatta University" : country==2? "Mzumbe University": country==3 ? "University of Zambia": country==4? "University of Namibia"
: country==5? "he Botswana University of Agriculture and Natural Resources (BUAN)": "_"
```

Legend and structure of information in this file

Name of section		Type of question, scope		Variable name
Enabling condition for this section	Question title	Answer options		
E s4_other_sources_which.Contains(98)	SECTION 5: OTHER INCOME SOURCES			
Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur?		MULTI-SELECT SCOPE: PREFILLED		s4_rel_leaders_other
I This refers to family relations E s3_time_other > 0 V1 s4_rel_leaders_which.Contains(98) M1 Can not be itself V2 (s3_time_other_breeding_advice <= (50 - s3_time_art_insem_advice)) s3_time_other_breeding_advice == 0 M2 This person is not in the list F optioncode != s5_ignored_option_code		01 <input type="checkbox"/> Community animal health workers 02 <input type="checkbox"/> Private 03 <input type="checkbox"/> Government 04 <input type="checkbox"/> Livestock keepers association 05 <input type="checkbox"/> NGO And 5 other [13]		
Additional information: "I" – Question instruction "E" – Enabling condition "V1" – Validation condition №1 "M1" – Message for validation №1 "F" – Filter in Categorical questions		Link to full set in appendix		

Breadcrumbs

Type or roster
Roster Title
CHAPTER 3 IDENTIFICATION / Roster: LEADER RELATION DETAILS generated by fixed list:
01 Ward Livestock Officer
02 Village Livestock Officer
99 Other (specify)
List items