

## Cover: General Information

Date (dd/mm/yyyy)	
Name of Impact respondent	
Sex of Respondent	
Name of Respondent for Gender Survey	
Respondent's member id	
Sex of Respondent	
Contact Number (Mobile or Land line)	
Type of Household (CODE 1)	
<b>Geographical location (provided by the site coordinator)</b> <b>Please verify that all this information remains the same as Impact Light data</b>	
Country	
Province	
State/District	
Division	
Location	
Sub Location	
Village	
Latitude	(N), (S) _____ ° _____ M
Longitude	(E), (W) _____ ° _____ M
Elevation (metres)	
Production system	
Enumerator name	
Supervisor name	
Language used in interview	
First data entry name	
First data entry code	
Second data entry name	

### CODE 1: Household Types:

1-Dual (male and female spouses)

2- Female headed with another adult male decision-maker

3- Male headed but with another adult female decision-maker

4-Female headed, without an adult male decision-maker in the household

5-Male headed, without a female adult decision-maker in the household

## Introduction and Consent

### Read the following text to the respondent:

“We’re coming from CCAFS to talk with you about your farming practices, decision-making processes, and sources of weather information. We will start by asking some questions with both decision-makers together and then we would like to ask questions separately of men and women.

These questions are a follow-up to IMPACTLight survey, which we did last year.

The information collected is for research purposes and is strictly confidential.”

### Before the beginning of the interview read out the following paragraph and ensure that the respondent understands before asking for consent.

“Good morning/afternoon. We are coming from (\_partner organization’s name\_)\_ with permission from the local government. We are conducting a survey to understand how farming decisions are made, what different agricultural practices you use, your household’s access to information, extension services, and credit, and your participation in community groups. We would like to ask you some questions that should take no more than three hours of your time. We would like to share some of this information widely in order that more people understand how food is grown and land managed in this region and the issues that you face regarding access to and use of agricultural information and credit. Your household was selected for this survey because you participated in a previous survey (IMPACT Lite). We want to combine that information with this new information. Your name will not appear in any data that is made publicly available. The information you provide will be used purely for research purposes; your answers will not affect any benefits or subsidies you may receive now or in the future. Do you consent to be part of this study? You may withdraw from the study at any time and if there are questions that you would prefer not to answer then we respect your right not to answer them.

Has consent been given? (01=Yes, 00=No)

[ \_ \_ ]

CONSENT

### Ask the following to the Adult Male Decision-Maker:

1. Do you consider yourself the main male decision-maker in the household?
2. Do you consent to provide information?

### Ask the following to the Adult Female Decision-Maker:

1. Do you consider yourself the main female decision-maker in the household?
2. Do you consent to provide information?

## Household Roster

1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	1.10
Member ID	Position in Household	Year of Birth	Gender 1-Male 2-Female	Names of household members	Is [person] still a member of the household? 1 Yes >> <b>1.8</b> 2 No>> <b>1.7</b> 3 New member>> <b>1.8</b>	Why is [person] no longer a member? 1 - Migrated 2 - Married 3 - Passed away >> <b>move to next member</b>	Marital status 0 – Single (or child) 1 – Married 2 - Separated 3 - Divorced 4- Consensual union 5- Single Widow 6- Inherited widow	Years of education completed? (Please do not include nursery school)	Is [person] disabled or chronically ill?  1- Yes 2- No
				<b>NAME</b>	<b>CODE</b>	<b>CODE</b>	<b>CODE</b>	<b>YEARS</b>	<b>CODE</b>
HH1									
HH2									
HH3									
HH4									
HH5									
HH6									
HH7									
HH8									
HH9									
HH10									
HH11									
HH12									
HH13									
HH14									
HH15									
HH16									

1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	1.10
Additional members?									

<p>1.11 Does the Household Head have any additional wives who are not considered members of the household?</p> <p>1 Yes&gt;&gt;1.12</p> <p>2 No &gt;&gt; Section 2</p> <p>A household is defined as people who <b>live</b> and <b>eat</b> together at least one season per year.</p>	<p>1.12 How many other wives does the household head have?</p> <p>&gt;&gt;1.12b</p>
<b>CODE</b>	<b>NUMBER</b>

If the household head has more than one wife who is not considered to be a member of this household, please list the names of all additional wives in the table below and answer the questions:

1.12 b What is the name of the wife?	1.12c How many children does [person] have?	1.12 d Where does [person] live? 1-Different household, same compound 2- Same village 3-Different village 4-City/Urban Area	1.12e Does this wife maintain any agricultural plots or livestock that are separate from this household? 1-Yes 2-No 3-Unsure
<b>NAME</b>	<b>NUMBER OF CHILDREN</b>	<b>CODE</b>	<b>CODE</b>

## 2: Sketch of the Farm

Please sketch a quick map of all the plots that your household used throughout the past 12 months. This drawing should indicate a sketch of the farm, including intercropping and the seasonality when different crops appear in plots. It also includes ponds or grazing areas owned by the household. This is to be done with both the male and female respondent together. Both enumerators—and their respondents—should agree on the number and order of the sublots that they have included.

### 3. Landownership and Plots

Enumerator will verify plots. Enumerator will also ask who controls/manages each plot and subplot. Please try to make sure that the plots, subplots, and seasons referenced correspond to the data collected in the IMPACT lite survey round.

3.1 Plot Number	3.2 Land ownership (explanations in code book)  1- Own land and own use,>>3.3  2 - Renting out>> 3.3 and 3.4, then skip to next plot  3 - Renting in>>3.5  4 - "Pure" Sharecropping in >>skip to 3.5  5 - "Pure" Sharecropping out >>3.3 and 3.4 then skip to next plot  6 - "Cost-sharing" Sharecropping in>>3.5  7- "Cost-sharing" Sharecropping out>>3.3 and 3.4, then skip to next plot  8 - Communal land>>3.3  9 - Borrowed land in>>3.5  10 - Borrowed land out >>3.3 and 3.4 the skip to next plot  Other, specify	3.3 Land title (only if owned)  1- Government title  2 - Communal tenure [clan, not written]  3 - No title  4 - Leased in from government  5 - Private lease	3.4 Who in the household owns the plot?  Member ID(s)  Write -99 if not owned by household member	3.5 Subplot Number	3.6 Season	3.7 Who made the majority of agricultural decisions on the subplot in the past 12 months?  Member IDs, up to 3	3.8 Was this subplot irrigated in the past season?  1- Yes>>3.9  2-No>>next plot	3.9 What was the source of irrigation?  1– River  2 – Canal  3 – Pond/Dam/Pan  4 – Lake  5 – Groundwater  6 – Sewerage Water  Other (specify)	3.10. What was the extraction method used for irrigation?  1 – Gravity  2 – Treadle pump  3 – Rower pump  4 – Diesel pump  5 – Electric pump  6 – Tractor pump  7 – Bucket/hose  Other (specify)	3.11 What Was the irrigation type?  1 – Flood  2 – Furrow  3 – Bed and furrow  4 – Bucket/hose  5 – Sprinkler/drip  Other (specify)
CODE	CODE 1	CODE	MEMBER ID			CODE	CODE	CODE	CODE	CODE



## 4. Decision-Making

### Module 4.1

Plot	Subplot	Season	Who made the final decisions regarding these agricultural production decisions on these subplots in the previous seasons? <b><u>Please remind the respondent that these questions concern decisions and not activities. If no decision, please use code 99.</u></b>									
			4.1.A: What fields to plant and cultivate (what to plant, where, what to fallow)	4.1.B: Land Preparation (When to clear and plow; which methods to use and labor)	4.1.C: Inputs to be used (What variety and type of fertilizers and seeds)	4.1.D: Planting (Labor hired, timing, machinery or animal power)	4.1.E: Weeding: (When, hiring of labor, use of herbicides, management of weeds)	4.1.F: Crop Management (Top Dressing, disease control, pest management, irrigation)	4.1.G: Harvesting (When to Harvest, how to harvest, transport from field)	4.1.H: Post Harvesting or Processing	4.1.I: Use (sale, consumption, gift, value addition, etc)	4.1.J: Use of Income from the sale of crops
			MEMBER ID/CODE	MEMBER IDS/CODE	MEMBER IDS/CODE	MEMBER IDS/CODE	MEMBER IDS/CODE	MEMBER IDS/CODE	MEMBER IDS/CODE	MEMBER IDS/CODE	MEMBER IDS/CODE	MEMBER IDS/CODE

CODE (if not a household member)

**51**-Male non-household family member

**52**-Female non-household family member

**53**-Male decision maker (non-household)

**54**-Female decision maker (non-household)

**99**-No Decision



Plot	Subplot	Season	Who made the final decisions regarding these agricultural production decisions on these subplots in the previous seasons? <b><u>Please remind the respondent that these questions concern decisions and not activities. If no decision, please use code 99.</u></b>									
			A: What fields to plant and cultivate (what to plant, where, what to fallow)	B: Land Preparation (When to clear and plow; which methods to use and labor)	C: Inputs to be used (What variety and type of fertilizers and seeds?)	D: Planting (Labor hired, timing, machinery or animal power)	E: Weeding: (When, hiring of labor, use of herbicides, management of weeds)	F: Crop Management (Top Dressing, disease control, pest management, irrigation)	G: Harvesting (When to Harvest, how to harvest, transport from field)	H: Post Harvesting or Processing	I: Use (sale, consumption, gift, value addition, etc)	J: Use of Income from the sale of crops
			MEMBER ID/CODE	MEMBER IDS/CODE	MEMBER IDS/CODE	MEMBER IDS/CODE	MEMBER IDS/CODE	MEMBER IDS/CODE	MEMBER IDS/CODE	MEMBER IDS/CODE	MEMBER IDS/CODE	MEMBER IDS/CODE

CODE (if not a household member)

**51**-Male non-household family member

**52**-Female non-household family member

**53**-Male decision maker (non-household)

**54**-Female decision maker (non-household)

**99**-No Decision

## Module 4.2

Who usually made the following decisions regarding livestock production over the last 12 months? <b>Please remind respondents that we are interested in who makes decisions, not who does the activity. Please enter 99 if no decision is made. Enter “-” if household does not have that particular animal.</b>														
	A Watering (where to water, when to water, and who waters)	B Feeding (what to feed animals, when, and who feeds them)	C Veterinary treatment (when to go for treatment, whether or not to seek treatment)	D Housing (what type of housing to build and where)	E Grazing (where to graze, when to graze, and the labor required to graze)	F Breeding	G Milk production	H Milk Products	I Slaughtering	J Other products (leather, wool, eggs, honey)	K Use of product (meat or other) (sale, consumption, gift, etc.)	L Use of Income from Sale of product (if sold)	M Sale, disposal, or use of animal	N Income from sale, disposal or use of animal
Animal Type	Member IDs	Member IDs	Member IDs	Member IDs	Member IDs	Member IDs	Member IDs	Member IDs	Member IDs	Member IDs	Member IDs	Member IDs	Member IDs	Member IDs
Cattle (local)														
Cattle (Improved)														
Goats (local)														
Goats (improved)														
Sheep														
Poultry														
Pigs														
Bees														
Fish														
Donkeys														

CODE (if not a household member)

**51**-Male non-household family member **52**-Female non-household family member **53**-Male decision maker (non-household) **54**-Female decision maker (non-household) **99**-No Decision

CODE (if not a household member)		4.3
51-Male non-household family member 52-Female non-household family member 53-Male decision maker (non-household) 54-Female decision maker (non-household) 99-No Decision		When decisions were made regarding the following aspects of farm or household life in the last 12 months, who was it that normally had the final say in the decision?
		If household did not engage in a particular activity in the past 12 months, enter code 99 and proceed to next activity.
	<b>Activities</b>	<b>MEMBER IDs/CODE</b>
A	Major farm investments to make (machinery, infrastructure, irrigation)	
B	Buying or selling land	
C	Renting Land	
D	Whether or not you engage in a Non-farm business activity (opening a shop, tailoring, basket making, rope making, brick making)	
E	Whether or not you engage in salary or wage employment (including paid casual labor on other farms)	
F	Major household expenditures (household appliances, furniture, radios, etc)	
G	Household food expenditures	
H	Minor household non-food expenditures (daily staples, clothing, school supplies)	
I	How to spend your own money (Income earned from non-farm business activities or wage employment)	

4.4 Who is considered to be the owner of the home?	<b>MEMBER ID(s)/CODE</b>		
51-Male non-household family member 52-Female non-household family member 53-Male decision maker (non-household) 54-Female decision maker (non-household) 99-No Decision			

## Section 5: Practices

Please remind the respondents that they are answering for their specific point of view.

	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	5.10
<b>Practice</b>	Are you aware of [practice] ?  1- Yes 2- No >> next practice	In the past 12 months, did you use [practice] on the plots that you manage (or jointly manage)? 1- Yes>>5.5 2- No >> 5.3	Did you previously use [practice] on plots that you manage?  1- Yes >>5.4 2- No >>5.9	Why did you stop using [practice]? >>Next practice	Please specify which plots or subplots.	What is your main source of information for the [practice]?	What benefits have you observed from using this practice?  Please list up to 3	What disadvantages or costs, if any, have you observed from using this [practice]?  Please list up to 3 >>Next practice	Would you like to adopt [practice] on plots you manage?  1- Yes 2- No	Why are you not using this or interested in using this [practice]?  (List up to 3 most important)
	<b>CODE</b>	<b>CODE</b>	<b>CODE</b>	<b>CODE 1</b>		<b>CODE 2</b>	<b>CODE 3</b>	<b>CODE 4</b>	<b>CODE</b>	<b>CODE 1</b>
Agroforestry										
Terraces, Bunds										
Water Harvesting (Dams, Ditch, Water Pans)										
Use of Irrigation										
Zai Pits/Planting Pits/Negarims										
Leaving Crop Residue										
Composting										
Livestock manure management										
More efficient use of fertilizer										
Use of improved, high yielding varieties										

	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	5.10
<b>Practice</b>	Are you aware of [practice] ?  1- Yes 2- No >> next practice	In the past 12 months, did you use [practice] on the plots that you manage (or jointly manage)? 1Yes>>5.5 2No >> 5.3	Did you previously use [practice] on plots that you manage?  1- Yes >>5.4 2- No >>5.9	Why did you stop using [practice]? >>Next practice	Please specify which plots or subplots.	What is your main source of information for the [practice]?	What benefits have you observed from using this practice?  Please list up to 3	What disadvantages or costs, if any, have you observed from using this [practice]?  Please list up to 3  >>Next practice	Would you like to adopt [practice] on plots you manage?  1 -Yes 2 -No	Why are you not using this or interested in using this [practice]?  (List up to 3 most important)
	<b>CODE</b>	<b>CODE</b>	<b>CODE</b>	<b>CODE 1</b>		<b>CODE 2</b>	<b>CODE 3</b>	<b>CODE 4</b>	<b>CODE</b>	<b>CODE 1</b>
Use of stress-tolerant varieties										
No till/Minimum tillage										
Improved grain storage										
Improved Stoves (wood or charcoal burning)										
Improved feed management (livestock)										
Destocking										
Cover Cropping										
Switching to drought and pest tolerant species or breeds										
Grazing, Pasture, or Rangeland Management										
Integrated Pest Management										

## 6—Sources of Information

	6.1	6.2			6.3	6.4			6.5	6.6	6.7	6.8
	Did you have access to information on [type] in the last 12 months?  1 Yes 2 No >> next row	Source (s): Please list the main sources of information you have received this type of information from in the last 12 months.  Please list up to 3 main sources			Were you able to use this information?  1- Yes>> 6.4 2- No >> 6.5	How were you able to use this information?  List up to 3 uses  >>6.6			Why were not you able to use this information ?  >>6.6	Did you share or discuss this information with others outside of your family?  1- Yes 2- No	Did you share or discuss this information with other members of your family?  1- Yes 2- No  >>Next	What information would you like to receive that you are not currently receiving?  List top 3 with (1 being the most desired)
		Source 1	Source 2	Source 3								
<b>Information type</b>	<b>CODE</b>	<b>CODE1</b>	<b>CODE1</b>	<b>CODE1</b>	<b>CODE</b>	<b>CODE 2</b>	<b>CODE 2</b>	<b>CODE 2</b>	<b>CODE 3</b>	<b>CODE</b>	<b>CODE</b>	<b>RANK</b>
Forecast of drought, flood or extreme events												
Forecast for the start of the rains												
Seasonal weather forecast (for long rains or short rains)												
Short-term forecast (1 day-1 week in advance)												
Long-term weather forecasts (1 year or more in advance)												
Information on crop production and management												
Information on livestock production and management												
Pest and disease outbreaks and management												
Post harvest handling												

	6.9	6.10 a	6.10 b
	Did you have access to agricultural and/or climate information from this [source] in the last 12 months? 1 - Yes 2 - No >> next source/row (Please verify based off previous section)	What are the most useful sources of agricultural information? Rank top 3 (with 1 being the most important)	What are the most useful sources of climate information? Rank top 3 (with 1 being the most important)
<b>Source</b>	<b>CODE</b>	<b>RANK</b>	<b>RANK</b>
Government Extension Workers			
NGOs			
Community Meetings/Barazas			
Farmer Organizations, Coops, CBOs			
Religious groups			
Agri-service providers, Seed companies			
Family members			
Neighbors			
Radio			
TV			
Newspaper/bulletin			
Schools/teachers			
Cell phone			
Internet			
Traditional forecasters/ indigenous knowledge; own knowledge			
Agricultural Shows			
Farmer Field Days/Demonstrations			

6.11	6.12	6.13	6.14	6.15	6.16	6.17	16.17A	16.18
<p>Have you met with an extension agent within the past 12 months?</p> <p>0 - No &gt;&gt; 6.18 1 - Yes</p> <p>(Please do not ask directly, only verify the statements based off of previous statements)</p> <p><b>Extension agent is defined broadly as someone trained to give agricultural advice</b></p>	<p>Was the extension officer male or female?</p> <p>0 - Male 1 - Female 2 - Both male and female</p>	<p>What type of extension activities did you participate in mostly during these meetings? <b>(List up to 3 most important activities)</b></p> <p>1 - One-on-one advice 2 - "Training and visit" activity 3 - Farmer field school 4 - Demonstration event/field day 5 - Farmer organization meeting 6 - Facilitated exchange visit to other farmers, locally (village) 7 - Facilitated exchange visit, to other farmers, not locally (beyond village) Other, specify</p>	<p>How frequently did you meet with an extension agent in the past 12 months?</p> <p>1 - Every week 2 - Every 1-2 weeks 3 - Every 2-4 weeks 4 - 6-12 times year 5 - 4-6 times per year 6 - 3-4 times per year 7 - 2-3 times per year 8 - 1-2 times per year 9 - 1 time per year</p>	<p>During your most recent meeting with an extension agent, to whom did the extension agent give information/ advice?</p> <p><b>If they do not mention themselves, please probe</b></p>	<p>During the most recent meeting with the extension agent, from which organization did the extension agent come from?</p> <p>1 - Government agriculture extension department 2 - Agricultural research institutions 3 - NGOs 4 - Community-based organizations 5 - Business 6 - Religious groups 7 - Local progressive farmers 8 - Bank Other, specify</p> <p>(Multiple responses allowed)</p>	<p>During your most recent visit with the extension agent, did you have to pay a fee to access services? (not a fee for products)</p> <p>1 - Yes&gt;&gt;16.7 A 2 - No&gt;&gt;Section 7</p>	<p>What was the fee, shillings?</p> <p>&gt;&gt;Next section</p>	<p>If you did not meet with an extension agent during the last year, why?</p> <p>(List up to 3 reasons)</p>
CODE	CODE	CODE	CODE	MEMBER IDs	CODE	CODE	CURRENCY	CODE 4



## 7: Credit and Insurance

<b>7.a.</b> Did your household attempt to borrow from any source (cash or in kind) in the last 12 months? _____  1 – Yes >> <b>7.1</b>  2—No >> <b>7.b</b>	<b>CODE</b>

<b>7.c.</b> If your household wanted to borrow cash or in kind in the last 12 months, would you have had access?  1 – Yes >> <b>7.11</b>  2 – No >> <b>7.11</b>  >  >>Skip to 7.11 after this question	<b>CODE</b>

<b>7.b.</b> Why did your household not try to obtain a loan in the last 12 months?  (List up to 3 reasons)  0 – No need for loan/have enough money/able to use assets 1 – Afraid of losing collateral 2 – Cannot pay the money back 3 – Inadequate collateral 4 – Had outstanding loan 5 – Past history of default 6 – Bad credit history 7 – Interest rates too high 8 – Lenders not located nearby 9 – Procedures too cumbersome 10 – Need to pay bribes 11 – Family dispute in borrowing 12 – No access to lending groups Other, specify  Proceed to 7.c after this question						
<table border="1"> <tr> <th colspan="3">CODE</th></tr> <tr> <td></td><td></td><td></td></tr> </table>	CODE					
CODE						

7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8		7.9.			7.10.
From which sources did members of your household attempt to borrow from in the last 12 months?  1-Non-governmental organization 2-Group-based micro-finance or lending 3-Bank 4-Credit Union 5-Friends 6-Relatives 7-Traders or Shopkeepers 8-Landlords 9 - Other specify	Who in the household attempted to borrow from [source]?	Who made the decision to borrow from [SOURCE]?	What was the main reason member want to borrow money from [source]?	Was member successful in obtaining a loan from [SOURCE]?  1-Yes >>7.7 2-No >> 7.6	Why was member not able to borrow from [SOURCE]?  1 - Inadequate collateral 2 - Bad credit history 3 - Have outstanding loan 4 - Past history of default with lender 5 - No reason given  >>Skip to next row	Who made the decision about what to do with the money/ item borrowed from [SOURCE]?  Member id(s) Write -99 if outside of household	What was the amount that you received from [SOURCE] this time?		How was the credit used? Please list up to 3 uses.			If more credit had been available from this source, would you have used it?  1 - Yes 2 - No  >> Next source
CODE	MEMBER ID	MEMBER ID	CODE 1	CODE	CODE	MEMBER ID	CASH	VALUE OF IN KIND	CO DE 1	CO DE 1	CO DE 1	CODE

<p>7.11</p> <p>In the past 12 months, did your household borrow food or other goods from neighbors, shopkeepers, or other sources?</p> <p>1- No&gt;&gt;skip to 7.17</p> <p>2- Yes</p>	<p>7.12</p> <p>Who provided the food or other goods in the last 12 months? (Multiple responses allowed)</p> <p>1-Friends</p> <p>2-Non-household family members</p> <p>3-Shopkeepers</p> <p>4-Traders</p> <p>5-Landlords</p>	<p>7.13</p> <p>Who made the decision to borrow food or other goods in the last 12 months? (From where, when, how much) (Multiple responses allowed)</p>	<p>7.14</p> <p>In the past 12 months, how often did you borrow food or other goods (from any source)?</p> <p>1-Daily</p> <p>2-Weekly</p> <p>3-Monthly</p> <p>4-Only in certain times of the years</p>	<p>7.15</p> <p>Who was responsible for paying back the in-kind loan? (Multiple responses allowed)</p>	<p>7.16</p> <p>Would you have borrowed more food or other goods if it were available?</p> <p>1 -No</p> <p>2 -Yes</p>
CODE	CODE	Member ID (s)	CODE	Member ID (s)	CODE

Insurance Questions

7.17	7.18	7.19	7.20						
Have you purchased index-based or crop insurance for the plots that you manage?  1- Yes >>7.19 2- No>>7.18	Why did you not purchase insurance?  1- Not available 2 -No need 3- Not aware 4- Don't understand insurance 5- No funds 6- Previous bad experience 7 -cultural belief/superstition	Do you currently have other types of insurance?  1 -Yes 2 -No >> skip to section 8.	What type of insurance have you purchased?						
			7.20a Health Insurance (You)  1- Yes 2- No	7.20 b Health (family)  1- Yes 2 -No	7.20c Burial/Funeral (you)  1- Yes 2- No	7.20d Burial/funeral (family)  1- Yes 2- No	7.20e Life (you)  1 -Yes 2 -No	7.20f Life (family)  1- Yes 2- No	7.20g Property  1 -Yes 2 -No
CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE	CODE

### 8. Group Membership:

[illegible]

## 9: Fuel and Domestic Water

Season	9.1	9.2	9.3	9.4	9.5	9.6
	What were your main energy sources for cooking over the last year?  List top 3 sources in each season in order of importance (with 1 being most important)	What were the main sources of domestic water over the last year?  List top 3 sources in each season in order of importance (with 1 being most important)	Distance to source (in meters)	Who collects the water from [SOURCE] (if not piped)?  Enter 99 if hired  >> 10.15	How many minutes per week are spent collecting water from [SOURCE]?	How would you describe the quality of [source]?  1. Very good 2. Good 3. Fair 4. Bad 5. Very Bad
	<b>CODE 1</b>	<b>CODE 2</b>	<b>Distance in Meters</b>	<b>Member ID</b>	<b>Minutes</b>	<b>CODE</b>
Rainy season	Source 1:	Source 1:				
	Source 2:	Source 2:				
	Source 3:	Source 3:				
Dry season	Source 1:	Source 1:				
	Source 2:	Source 2:				
	Source 3:	Source 3:				

## 10—Climate Shocks

10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	10.10	10.10b
Which climate shocks have significantly affected your household (income or livelihood) during the last 5 years? (List up to 5 major shocks)  1-Floods 2- Droughts 3- Storms/Strong Winds 4- Erratic Rainfall 5-Frost 6-Cold Spells 7-Heat waves 8-Fires Other (please specify) <b>Climate shocks are defined as unpredicted weather events that are beyond normal expectations</b>	When was the shock? (year in last 5 years)	How widespread was the shock?  1- Only in my household 2- Some households in village 3- Most households in village 4 -Many households in the district 5- All households in the district	What were the primary results of the shock? (List up to Three)	What immediate actions did your members of your household take?  (List up to three)	Who took the action?	[Please verify if the household sold assets to cope with the shock? If not mentioned in 10.6, please ask if they sold or pawned any assets (including crops, livestock, land, household goods etc).  1. Yes 2. No >> If No, move to next shock	Please record the asset(s) sold to cope with shock.	Who owned the asset(s) that was sold?	Who in the household was most affected? (Multiple Member IDs allowed)  <b>If respondents mention all members of the household, please enter code 55.</b>	Why was this person (s) most affected?
CODE	YEAR	CODE	CODE 1	CODE 2	MEMBER ID (s)	CODE	CODE 3	MEMBER ID (s)	MEMBER IDs	Please Fill in
Shock 1:										
Shock 2:										
Shock 3:										
Shock 4:										
Shock 5:										

## 11. Perceptions of climate change and risks associated with climate change

11.1	11.2					11.3	11.4		
<p>Have you noticed any changes in climate or weather patterns over your lifetime?</p> <p>1- Yes</p> <p>2- No</p> <p>&gt;&gt; skip to 11.5</p> <p>3- Not Sure&gt;&gt;skip to 11.5</p>	<p>If yes, what changes have you noticed over your lifetime?</p> <p><b>(List up to 5 changes)</b></p> <p>1- More hot days 2- More cold days 3- Rainfall increasing 4- Rainfall decreasing 5- Rains are more erratic 6- Rains come earlier 7- Rains come later 8- Longer periods of drought 9- More frequent drought 10- More frequent flooding 11- More frequent heatwaves 12- More frequent storms 13- Less frequent floods 14- Less frequent drought 15- Less frequent heatwaves 16- Less frequent storms 17- Stronger storms 18- increased salinity in the water 19- increased salinity in the soil 20- More Fires Other, specify</p>					<p>How likely do you think it is that the weather or climate will continue to change over your lifetime?</p> <p>1- Not likely &gt;&gt; 11.5</p> <p>2- Not very likely</p> <p>3- Somewhat likely</p> <p>4- Very Likely</p>	<p>What, if any, do you expect the results or impacts of such future changes to be?</p> <p><b>(List 3 most important results)</b></p> <p>1- No Impacts/No Change 2- Don't know 3- Reduced agricultural productivity 4- Water scarcity/shortage of fresh water 5- Decrease in livestock fodder 6- More soil erosion/less soil fertility 7- Health risks (including death) 8- Decrease in income 9- Increase poverty levels 10- Food insecurity 11- More natural disasters 12- Livestock deaths 13- Longer seasons for agriculture 14- More water availability 15- More pests and diseases (plant and livestock) 16- More productive crops 17- Less pests and diseases 18- Change in native vegetation 19- New markets and new crops 20- Reduced fuelwood availability 21- More Fires Other, specify</p>		
	Change 1	Change 2	Change 3	Change 4	Change 5		Reason 1	Reason 2	Reason 3
<b>CODE</b>	<b>CODE</b>	<b>CODE</b>	<b>CODE</b>	<b>CODE</b>	<b>CODE</b>	<b>Code</b>	<b>CODE</b>	<b>CODE</b>	<b>CODE</b>



	11.5	11.6	11.7		
	<p>What is the likelihood that you will be affected by the following changes in climate in the future?</p> <p>1 - Not likely at all &gt;&gt;next climate change</p> <p>2 - Somewhat likely</p> <p>3- Likely</p> <p>4- Very likely</p>	<p>How much of an impact do you think the climate changes will have on your household's livelihood?</p> <p>1- No impact</p> <p>2- Minimal impact</p> <p>3- Moderate impact</p> <p>4- High impact</p> <p>5 - Severe impact</p>	<p>What possible impacts do you anticipate from these changes?</p> <p>1- No impacts/no change  2- Don't know  3- Reduced agricultural productivity  4- Water scarcity/shortage of fresh water  5- Decrease in livestock fodder  6 More soil erosion/less soil fertility  7- Health risks (including death)  8- Decrease in income  9- Increase poverty levels  10-Food insecurity  11- More natural disasters  12- Livestock deaths  13- Longer seasons for agriculture  14- More water availability  15- More pests and diseases (plant and livestock)  16- More productive crops  17- Less pests and diseases  18- Change in native vegetation  19- New markets and new crops  20- Reduced fuelwood availability  21- More Fires  Other, specify</p>		
			IMPACT 1	IMPACT 2	IMPACT 3
<b>Climate changes</b>	<b>CODE</b>	<b>CODE</b>	<b>CODE</b>	<b>CODE</b>	<b>CODE</b>
More Frequent or More Severe Droughts					
More Frequent or more Severe Floods					
More frequent Heatwaves/hotter temperatures					
Shifts in rainfall patterns					
Decline in rainfall/ less water availability					
More Frequent Storms or Wind					
More Frequent Cold Spells/Colder Temperatures					
[Other, specify]					
[Other, specify]					

## 12—Adaptation

12.1*	12.2	12.3	12.3 B	12.4	12.5	12.6	12.7	12.8	12.9
<p>If you have observed, or believe that you will be affected by, climate changes, have you made any changes to protect yourself, your family, or your community? This can include any agricultural, livestock, or livelihood changes</p> <p>1 -Yes&gt;&gt; 12.3 2 -No &gt;&gt; 12.2</p>	<p>If no, why have you not made any changes?</p> <p>&gt;&gt;12.4</p>	<p>If yes what changes have you made? List the 5 most important</p>	<p>Who in the household made the decision to make these changes?</p>	<p>Do you plan to make any (additional) changes to protect against changes in climate over the next 5 years?</p> <p>1- Yes&gt;&gt;12.5 2- No &gt;&gt; 12.6 3- Don't know/ not sure&gt;&gt;12.6</p>	<p>If yes, what changes do you plan to make?</p> <p>Skip to &gt;&gt;12.7</p>	<p>If no, why do you not plan to make any changes?</p> <p>&gt;&gt;12.7</p>	<p>Are there any changes you would like to make but are not able to in the near future?</p> <p>1 - Yes &gt;&gt;12.8 2 - No &gt;&gt; If No, skip to next section 3- Don't know/ not sure&gt;&gt;skip to next section</p>	<p>If yes, what change(s) would you like to make?</p>	<p>Why were you not able to make this (these) change (s)?</p>
<b>CODE</b>	<b>CODE 1</b>	<b>CODE 2</b>	<b>Member ID</b>	<b>CODE</b>	<b>CODE 2</b>	<b>CODE 1</b>	<b>CODE</b>	<b>CODE 2</b>	<b>CODE 1</b>
		Change 1			Change 1:			Change 1:	
		Change 2:			Change 2:			Change 2:	
		Change 3:			Change 3:			Change 3:	
		Change 4:			Change 4:			Change 4:	
		Change 5:			Change 5:			Change 5:	

\*Please only ask this section if respondents have reported observing climate change (Question 11.1 or perceive that it is somewhat likely that they will be affected by future climate changes)

### 13. Personal Values

We are interested in knowing which life-guiding principles or values you have that guide your choices and decisions. With that in mind, please rate the following statements based on your own personal values.

	Statement	1 - Strongly Disagree	2 - Somewhat disagree	3 - Neither agree nor disagree	4 - Somewhat Agree	5 - Strongly agree
13.1	I actively seek out advice about agricultural practices for my farm.					
13.2	If spouses (males and females) make household agricultural decisions together, their livelihood will improve (agricultural productivity, food security, income etc).					
13.3	Everyone in the community should show respect for cultural traditions relating to agricultural practices.					
13.4	It is important to challenge oneself and to learn and try new things.					
13.5	It is important to help and assist those who do not have the resources to make agricultural changes themselves.					
13.6	I highly value new agricultural information, technology, and weather information.					
13.7	We need to protect natural resources because they are important for our livelihoods.					
13.8	Members of the community should work together to improve the community (maintaining common areas, infrastructure, etc.).					
13.9	Traditional solutions and methods for agriculture will help to resolve all the problems we face.					
13.10	I am often one of the first people in my community to try new practices on my farm.					
13.11	Religious teachings will help us to meet any challenges we face in life, including changes in climate.					
13.12	When making agricultural decisions, I am most concerned about generating income.					
13.13	I am willing to accept agricultural advice from outside sources.					
13.14	I make my own agricultural decisions without worrying about what other people say.					
13.15	I have an active role in community-decision-making.					

		1 Strongly Disagree	2 Somewhat disagree	3 Neither agree nor disagree	4 Somewhat Agree	5 Strongly agree
13.16	I compete with my neighbors to see who can have a better farm.					
13.17	One of the problems with people today is that they challenge authority too often.					
13.18	It is important to have protection of ones' own property rights.					
13.19	My community is welcoming to new agricultural ideas and practices.					
13.20	Co-operation with others usually works.					
13.21	Being a farmer is an important part of my identity.					
13.22	When making agricultural decisions, I am most (very) concerned about food security.					
13.23	I am capable of improving my life and the lives of members of my household.					
13.24	The land use and agricultural changes that I have implemented will help me to reduce my vulnerability to climate change.					
13.25	I trust members of my community to help me in times of need.					
13.26	The livestock changes that I have implemented will help me reduce my vulnerabilities to climate changes.					
13.27	I trust my family to help me in times of need.					
13.28	It is important to me to be able to pass my farm/land on to my children.					
13.29	I feel a very strong connection to the land that I farm.					
13.30	Men and women should have equal roles in agricultural decision-making					