

Institute of Statistical, Social & Economic Research (ISSER)



AGRA BASELINE STUDIES 2016 [GHANA/BURKINA FASO/MALI/MOZAMBIQUE]

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HHID _____

Baseline Household Survey 2016

IDENTIFYING VARIABLES

We are conducting a baseline study of farmer households for selected crops in this part of the country. Your household was one of over 2000 households selected to take part in this study as respondents in the baseline survey. Your responses will be kept **confidential**, and will be analyzed jointly with the other respondents. If you decide to take part in the study, you can change your mind at any time and leave the study.

Do you agree to take part in the study?"

1=Yes

2=No

CONSENT _____

Survey Date (dd /mm /yy)

SURDATE ____/____/2016

Interview duration (hh/min) SURVST _____ SURVED _____

Household Name

HHNAME _____

Respondent Name

RESPO _____

MEM _____

SUPERVISOR: _____

SNUM _____

ENUMERATOR: _____

ENUM _____

ZONE (1=Lake Region 2=Southern Highlands 3=Northern Region)

ZONE _____

REGION: _____

REGION _____

DISTRICT: _____

DIST _____

LOCATION: _____

LOC _____

VILLAGE: _____

VIL _____

Crop-cutsample:

[1=maize

2=cassava

3= soybean

4=rice]

CSample _____

Phone

(Enumerator: Record this after completing the interview)

Phone1 _____

Phone2 _____

Language(S) Of Interview (Enumerator: Record this after completing the interview)

Lang1 _____

Lang2 _____

Lang3 _____

GPS Coordinates

(North=1, South=2)

NS _____

HH1 _____

. _____

dd

EW _____

HH2 _____

. _____

dd

Altitude MT. a.s.l

MASL (_____)

SECTION A: DEMOGRAPHY

Ask these questions for each of the members that have stayed with this Household for a period of **at least six month** over the last 12 months. (Household members are defined as all those who normally live and eat their meals together here. Include household members temporarily studying elsewhere or *traveling, but who spent AT LEAST SIX continuous months living and eating here since June 2015*).

Reference Period: The Past 12 months

Member ID & Name (Start with the household head)	What is the sex of...? 1=male 2=female	Relationship to current head See code below	In which year was this person born?	How many months in the past 12 months has this person been living at home?	Is this person currently considered a member of this household? 1=Yes 2=No	If this person is not a current member of household, why? See code below	Marital Status (ask only if A05<2002 See codes below	If A05<2013, What is the highest level of education completed see codes below	Is [name] currently attending school? <i>(ask if person age is btm 3-18 years)</i> 1 = Yes 2 = No	If A11=2, Why not?	Can [name] read and write? 1=Yes 2=No	What is the MAIN occupation of (Name)?	Did this person receive cash from informal/business activity? Include dividends (past 12 months) 1=Yes 2=No	Did this person receive cash or payment in kind from salaried employment, wage activities, remittances or pensions (past 12 months) 1=Yes 2=No	
A01	A02	A03	A04	A05	A06	A07	A08	A09	A10	A11	A12	A13	A14	A15	A16
1															
2															
3															
4															
5															
6															
7															
8															
9															
Relation to head (A04)			Marital Status (A09)		Education levels (A10)				Reason for absence in school (A12)		Reason why not member of HH (A08)		Main Occupation (A14)		

1= head 2= spouse 3= own child 4= step child 5= parent 6= brother /sister 7= nephew /niece 8= son/daughter-in-law 9= grandchild	10=other relative 11=unrelated 12=brother /sister-in-law 13=parent-in-law 14=Worker	1 = single 2 = monogamous married 3 = polygamous married 4 = divorced 5 = widowed 6 = separated	-9=None 0=pre-school 1=P1 2=P2 3=P3 4=P4 5=P5 6=P6 7=P7	11=S1 12=S2 13=T 14=S4 15=S5 16=S6 17= college 1 18=college 2	19= college 3 20= college 4 21=univ 1 22=univ 2 23=univ 3 24=univ 4 & above	0=Too young 1=Cannot afford expenses 2=Working 4=Pregnancy 5=Sickness/disability 6=Refused to continue 7=Completed schooling 8=Other (specify)___	1=left to find a job 2=left to attend school 3=married away 4=deceased 5=divorced /separated 6=living with other relatives 7= went missing 8=went back home 9=farm worker left 10=other specify__	23=Farming 1= Salary earner (e.g., teacher, policeman, etc.) 2= Casual wage earner 3= Farm labourer 4=Transportation business 5= Bicycle repair/mechanics 6= Brewing business 7= Brick making 8=Butcher 9=Carpentry 10=Charcoal burning 11=Clothes business (trading) 12=Construction	13=General-kiosk owner 14=Miller 15=Trading farm produce 16=Trading fish 17=Trading livestock 18=Trading firewood 19=Trading non- food goods 20=Trading timber 21=Tailor 22=Schooling
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SECTION B1: PLOT ROSTER

Fill the details of the Plots accessed **within the reference period** in the table below.

B01 How many Plots of land did the HH farm in the main cropping season? <i>(Include both owned and rented Plots for main or short cropping season in 2016.)</i>				B01 _____		
B02	B03	B04	B05 Crops grown on each plot (ENTER CROP CODE) In declining order of importance			
PLOT ID	Description of location	Which person in your household makes primary decisions about this plot, such as which crops to plant, when to plant, when to harvest, purchase and use of inputs? [if decision is made jointly enter the HHMID of the two persons] [HHMID]	Crop1	Crop2	Crop3	
1		□□ / □□				

2		□□ / □□			
3		□□ / □□			
4		□□ / □□			
5		□□ / □□			
6		□□ / □□			

SECTION B2: EXPECTED OUTPUT

Plot ID	Crop ID	What yield were you expecting for the past farming season?		What was the yield in the main farming season in						Do you have memory of years with very good or very bad yields?	
				2013?		2012?		2011?			
		Quantity	Unit	Quantity	Unit	Quantity	Unit	Quantity	Unit	Yes...1	No....2
B06	B07	B08	B09	B10	B11	B12	B13	B14	B15	B16	

SECTION B3: PLOTS

Plot ID	Plot Name <i>(Let the respondent, give each Plot a name)</i>	Is this plot measured? Yes.....1 No.....2	Size of Plot & the unit of measurement		How did the HH obtain this Plot?	What is the tenure status of this Plot?	If (<i>tenure=1; titled</i>),		If owned plot) Who can decide to <u>sell</u> or <u>give away</u> this plot? (Use mem ID)	What is the Distance (in KM) from the Plot to		What is the soil type of this Plot ?	What is the <u>soil quality</u> of this Plot ?	How did you <u>know</u> the quality of the soil ?	What is the <u>slope</u> of this Plot?	Area of the Plot [NAME] <u>under non fruit trees</u> ?	Acres of land allocated to <u>grazing</u>	Did you rent-out any part of the Plot in the last one year <i>1= Yes 2=No</i>	Area rented-out during the year (<i>used Plot size units</i>)		<i>(If B26=5 or B218=1)</i> How much did you pay/ receive as rent for the Plot in the last one year (LCU)		Who in the HH has the right to use this Plot? <i>Multiple allowed</i>	In which years was this Plot acquired?
			Area	Unit			Who owns the title? (use Mem ID)	Type of title for this Plot		HH	Market								Rent-in	Rent-Out				
B17	B18	B19	B20a	B20b	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30	B31	B32	B33	B34	B35	B36	B37	B38	B39	B40
Plot obtain (B21)		Code for tenure (B22)		Code for deed owner (B23)		Type of title B24				Soil type (B28)	Soil quality (B29)	Soil quality know (B30)	Slope codes (B31)											
1=Purchased, 2= Received as gift or inheritance, 3= Rented-in for fixed payments, 4=Sharecropped-in, 5=Borrowed-in, 6=Just walked in, 7= Other (specify)		1= Titled 2= Owned but not titled (e.g., settlement schemes, surveyed Plots) 3= Leasehold 4= Government land/forest/road reserves 5= Rented-in 6=Borrowed-in (no cost) 7=Other (specify)		1= HH Head 2= Spouse 3= Head's parents 4= Deceased husband 5= Deceased parents 6= Other relatives 7= Seller 8=Head & spouse (jointly) 9= Other (specify)		1=Granted right of occupancy 2=Certificate of customary right of occupancy 3=Residential license 4=Village/govt/witness purchased agreement 5=Local court purchase agreement 6=inheritance letter 7=Village govt allocation letter 8=Other govt documents 9=Official correspondence				1=sandy 2=loamy 3=clay 4=other, specify	1=very good 2=good 3=average 4=poor 5=very poor	1=Soil test 2=own experience 3=other, specify	1=flat 2=slight slope 3=moderate slope 4=steep/hilly 5=steep terraced 6=moderate terraced 7=Other (Specify) _____											

				10=Utility or other bills				
--	--	--	--	---------------------------	--	--	--	--

Code	Crop	Code	Crop	Code	Crop	Code	Crop
197	african eggplant (<i>mkungu</i>)	125	cucumber	1	maize, dry	36	Saina**
119	apple	120	custard apple (<i>matomoko</i>)	2	maize, green	40	sesame (<i>simsim</i> -drought) resistant)
44	arrowroots			4	maize (fodder)	78	sesame (<i>simsim</i>)
201	artemesia	192	dates	73	mangoes	16	sisal
97	avocado	147	dolichos (<i>njahi</i>)	204	mangoes (grafted)	90	snow peas
50	avocado (grafted)	164	dry peas	45	mangoes, tc	8	sorghum
18	baby corn	71	eggplant	9	millet	39	sorghum (drought resistant)
37	bambara bean (<i>njugumawe</i>)			220	mulberry	160	soya beans
10	bananas	196	figs (<i>mkuvu</i>)	222	medicinal plants	66	spinach
202	bananas, tc	20	flowers	80	nappier /elephant grass	124	squash
60	barley	25	french beans			190	Stefali**
7	beans			83	oats	206	stinging nettle
221	beetroot	138	garlic onion	77	okra	177	strawberries
210	bitter gourd (<i>karela</i>)	189	ginger (<i>tangawizi</i>)	96	onions	187	sugar beets
129	brinjals (<i>biriganya</i>)	165	gooseberry (<i>nathi</i>)	61	orange (grafted)	15	sugarcane
169	bulrush millet	62	gourds	61	orange (grafted)	170	sugarcane, chewing
		179	grapes	75	oranges	64	kales (<i>sukuma wiki</i>)
93	cabbage	34	green grams	22	other fodder leaves	30	sunflower
67	capsicum /sweet peppers	167	green peas	184	other leaves (bean, <i>njahi</i>)	68	sweet melon
94	carrots	33	groundnuts	59	passion (grafted)	43	sweet potatoes
24	cashew nuts	72	guava	137	passion fruit	49	sweet potatoes, tc
28	cassava			46	passion fruits, tc	3	tamarind
48	cassava, tc	139	indigenous grains	85	Pasture (not eleph/nappier)	136	tangerine
146	castor oil	140	Indig. veg/amaranths	58	Pawpaw (grafted)	12	tea
175	cauliflower	27	Irish potatoes	70	pawpaw	29	tobacco
200	chamomile	51	irish potatoes, tc	166	peaches	63	tomatoes
26	chickpeas			134	pears	162	tree tomato
131	chili peppers	174	java plum (<i>zambarau</i>)	65	pepper, bell	53	trees (multi-purpose), tc
42	citrus, tc			141	pigeon peas	5	trees (commercial)
23	coconuts	148	khat (<i>miraa</i>)	133	pineapples	161	turnips
194	coconuts, copra			121	plums		
193	coconuts, green	84	lemon (grafted)	178	pomegranate	205	vanilla
6	coffee, cherries	74	lemons	35	Poyo**		
176	coffee, churned	207	lemon grass	76	Pumpkin (fruit)	69	watermelon

11	coffee, mbuni	173	lettuce	172	pumpkin leaves	13	wheat
168	corn flower	118	loquat	17	pyrethrum	41	wheat (drought resistant)
14	cotton	32	lucerne			163	whitesuppoise** (<i>sapote??</i>)
183	coriander (<i>dhania</i>)			211	ravaya	149	wild berries
182	coriander (<i>dhania</i> -grains)	203	macadamia nuts (grafted)	31	rice		
21	cowpeas	135	macadamia nuts	86	rosemary	95	yellow passion fruit (<i>mero</i>)
19	cowpeas leaves	47	macadamia, tc	171	runner beans	81	vams

SECTION C: CROP ACTIVITIES

C1. Did this household have any cropping activity during MAIN SEASON [1= Yes No=2 (Skip to C.2)]

C01 _____

Enumerator Instructions: Get details for all the fields cultivated by the household on all Plots accessed during first season whether on own fields or rented. Plot #1 should be the one containing the largest crop of target crop field. If there are multiple fields for the target crop, largest mono-crop. **Crop and Variety codes provided in a separate Code sheet**

PLOT ID	ACTIVITY ID	Did you use tractor for [ACTIVITY] on [PLOT] during the 2014 season?	If you DO NOT own the tractor, how much did you spend on tractor services for [ACTIVITY] on [PLOT]? [If in kind give money value of item]	If you OWN the tractor, how much would it have cost you to hire labour for the [ACTIVITY] that the tractor did on [PLOT]?	Did you use drought animal for [ACTIVITY] on [PLOT] during the 2014 season?	If you DO NOT own the animal, how much did you spend on drought animal services for [ACTIVITY] on [PLOT]? [If in kind give money value of item]	If you OWN the drought animal, how much would it have cost you to hire labour for the [ACTIVITY] that the animal did on [PLOT]?	Did household members or others apart from hired laborers work on [PLOT] during [ACTIVITY]?	How much would it have cost you to hire labour for the [ACTIVITY] that household labour or others apart from hired laborers did on [PLOT]? [If in kind give money value of item]	Did you hire labour to work on [PLOT] during [ACTIVITY]?	How much did you spend on hired labour for [ACTIVITY] on [PLOT]? [If in kind give money value of item]
		Yes...1 No....2>>C4			Yes...1 No....2>>C7			Yes...1 No....2>>C9		Yes...1 No....2>>Next	
		C01	C02	C03	C04	C05	C06	C07	C08	C09	C10

PART D2: INPUTS (CHEMICAL)

READ: Now I'd like to ask about chemicals (such as fertilizer, weedicide, pesticide) you used during the last major farming season.

D5	In the last major farming season did you apply any chemicals such as fertilizer, weedicide or pesticide to any of your plots?		1= Yes 2= No (->)
----	---	--	----------------------

Complete one line for each type of chemical used.

		D6	D7	D8	D9	D10	D11	D12	D13	D14			
		What is the type of chemical?	Do you know the brand name of the chemical? See codes. If OTHER, please specify	What quantity did you use during the last major farming season?	When did you apply this chemical during the last major farming season?	How did you obtain the chemical?	IF obtained from an organization, which organization did you obtain your chemicals from?	If some or all of the chemical was purchased: What quantity did you purchase for the last major farming season?	If some or all of the chemical was purchased: What was the total amount paid for this quantity?	If some or all of the chemical was purchased: How did you pay for this chemical?			
Chemical Number	See codes below	(If OTHER, please specify.)	PROMPT: Do they have the bag, so that we can check? ENTER DK (-999) IF THE RESPONDENT DOES NOT KNOW THE BRAND	USE CODES: 1. Big bag (50kg) 2. Small bag (15kg) 3. liter 4. grams 5. Bowl Quantity	Month	See codes below. Select all which apply. DO NOT READ THE LIST.	(If OTHER, please specify.)	See codes below. Select all which apply.	Quantity	USE CODES: 1. Big bag (50kg) 2. Small bag (15kg) 3. liter 4. grams 5. Bowl	Enter the price paid by the respondent. GHS	See codes below. Select all which apply. DO NOT READ THE LIST.	(If OTHER, please specify.)
	1	<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	2	<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

3														
4														

Codes for E2:

1 Fertilizer: NPK (15-15-15)	15 Powder/Comdemn
2 Fertilizer: ammonium sulphate (SA)	16 Glyphosate/Roundup
3 Fertilizer 23-10-5 (Actyva)	17 Sarosate
4 Other compound fertilizer	18 Atrazine
5 Fertilizer: Other (specify)	19 Cereseomp
6 Urea	20 Terbulor
7 Commercial organic fertilizer,	21 Karate

Codes for E3:

1 NPK
2 Urea
3 Deco
4 Glyphosate
5 Wienco
6 Dizengoff

Codes for E6

1 Agro-input dealer
2 Purchased from market
3 Exchanged
4 Borrowed (loan)
5 Gift
6 Organization came to community

Codes for E7:

1 Govt	2 CARD	3 MasaraN'Arziki	4 ADVANCE
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Codes for E10:

1 Funded from regular household income (cash at home)	9 Borrowed from a trader or shopkeeper
2 Sold crops or other stored agricultural produce	15 Borrowed from a government or district body (eg goods purchased on credit)
3 Used savings	10 Borrowed from a private moneylender
4 Did extra work for more wages	16 Gift from friends or family
	11 Borrowed from employer

SECTION D3: INPUTS (CHEMICAL), CONTINUED

		For all plots specified in D15								
		D15		D16		D17				
Chemical Number	Which plot was this chemical used on?		What quantity was used on Plot ____?				How did you apply fertilizer on Plot ____?			
	Enter the [PLOT] on which this chemical was used % of chemical used on each plot		Units 1-Big bag (50kg) 2- Small bag (15kg) 3- liter 4- grams 5- kg 6- bowl				1 Basal dressing (near the base of the plant) 2 Top dressing (over the surface of the land)		3 Other (SPECIFY)	
	PLOT	%	PLOT	%	PLOT	%	Unit	number		
1									<input type="checkbox"/>	
2									<input type="checkbox"/>	
3									<input type="checkbox"/>	
4									<input type="checkbox"/>	
5									<input type="checkbox"/>	
6									<input type="checkbox"/>	

PART D4: INPUTS, CONTINUED (ORGANIC)			
READ: Now I would like to ask you some questions about your use of organic fertilizer on your plots			
D18	D19	D20	D21
Plot ID	In the past major agricultural season, did you use green manure on your plots?	In the past major agricultural season, did you use animal manure on your plots? <i>This includes collecting and applying, and grazing animals.</i>	In the past major agricultural season, did you use composted organic material , including food and crop residuals on your plots?
	1 Yes 2 No >>16	1 Yes 2 No >>18	1 Yes 2 No >>next section

PART D5: AGRONOMIC PRACTICES

		Are you aware of this practice? 1=Yes 0=No <i>(If no skip to the next practice)</i>	Have you practiced it on any of the plots in the last 2 farming seasons 1. Yes; 2. No	<i>On which plots did you practice it</i> <i>State Plot ID</i>			What was the reason for practicing this?
		D22	D23	D24			D25
Agronomic practice	CODE			Plot id	Plot id	Plot id	
terracing	1						
mulching/cover cropping	2						
minimum tillage	3						
wind breaks	4						
contour farming	5						
crop rotation	6						
water pans/planting basins	7						
grass strips	8						
afforestation	9						
agro forestry (legume trees)	10						
agro forestry (other trees)	11						
gabions/storm bands	12						
cut-off drains/soil bounding	13						

fallow	14						
composting	15						
use of inorganic fertilizers	16						
use of green manure fertilizers	17						
use of farm yard manure	18						
slash and burn	19						
growing legume crops	20						
use of inoculum	21						
use of lime	22						
other, specify _____)	23						

SECTION E: SEED ACQUISITION AND USE

E1.LIST All [target crop] seed varieties planted both in short and main seasons from the crop table starting with the main season crop. Then ask the questions in table).

Pull from crop table	What was the source of	How did you <u>obtain</u> this	Why did you use this source?	How would you rate the quality of this variety?	Were you able to purchase the quantity	Who in the hh made the decision to obtain seed	Which year did you FIRST	Did you grow this variety in the (2014/15)	Did you grow this variety in the (2013/14)	If E112 or E113=No, why you did not use the variety	Why did you choose this variety?	If you were to plant [target crop] <u>again</u> , would you	If E116 =No
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SECTION F: SEED VARIETY RENEWAL AND REPLACEMENT

(Renewal/Replenishment-Refer definition Eric add)

F1. Fill details of seed renewal/replacement in the table below for the ended cropping period *within the past 12 months*.

Sdrenewa16l.sav (if E15=1)

SEASON <i>1=Main 2=Short</i>	CRO P [Code for crop]	Type of the Seed Cultivate d	Seed Variety	Which year did you last replenish/renew this seed variety?	Where did you replenish from (Source)	Why did you REPLENISH from this source? <i>1=Affordable 2=Reliable/trustworthy 3=Convenient 4=easy to access the seed supplier 5= High quality seed 6=Available for free 7=Assortment of different varieties 8=Guaranteed output buy back</i>	Who in the hh made the decision to REPLENISH the seed from this source?	What was the MAIN reason for renewing/ replenishing this variety? <i>1=Disease infestation 2=Other</i>	On average, how many times do you replant the retained seed before replenishing this variety? (Numbers 1, 2,3.....)
F11	F12	F13	F14	F15	F16	F17	F18	F19	F20

F2.Are there other [target crop] seed varieties that you were growing in the past but you haven't used them in the last cropping year?

1=Yes (fill-in the table below)

0=No (skip to F3)

F02 _____

CROP [Code for target crop]	What varieties were you growing before the current variety?	For how many years were you growing this variety?	Why did you stop cultivating this variety? <i>1=No longer available2=Not satisfied with yield 3=Labor intensive4=Too costly (not willing to pay) 5=Can't afford (not able to pay)6=Inconsistent yields 7=Wanted to try something ne</i>	Which variety did you replace it with?	For what purpose do you grow [target crop]?	If grown for home consumption only which are the reasons which make you not sell the [target crop]?	What are the factors that affect [Target crop] yields on your farm? (select multiple)	What mechanism(s) do you use to prevent/reduce yield loss from these factor(s)? (select multiple)						
								F052	F053	F054	F061	F062	F063	F064
F21	F22	F23	F24	F25	F03	F04	F051	F052	F053	F054	F061	F062	F063	F064
Purpose codes (F03) <i>1= Home consumption only 2=Food and sale 3= Sale only 4= other, specify_____</i>			Reasons (F04) 1= Not enough land 2= No market for output 3= Not good price 4= Lack/limited demand for [target crop] in the market 5= No surplus available for sale 6= Large family size 7= Poor road conditions 8= Proximity to markets (located far) 9= low yields		Factors (F051 – F054) 1= Too little rainfall early in the season 2= Too little rainfall late in the season 3= Temperature 4= Too much rainfall early in the season 5= Too much rainfall late in the season 6= Not enough labor at planting 7= Pests and diseases 8= Low soil fertility 9= other, (specify) _____			Mechanisms (F061 – F064) 1= use of supplementary irrigation 2= clean-weeding of the field 3= seed renewal 4= replacing seed variety 5= shifting to another crop 6= reducing cropped area 7= use early maturing varieties 8= use drought resistant 9= conservation tillage 10= crop diversification 11= early planting 12= buy crop insurance 13= deep sowing 14= deep & repeated ploughing						

	10=others (specify) _____	15=dry planting 16=labour sharing with neighbors 17=using household labour
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SECTION H: SEED VARIETY DECISIONS AND AWARENESS

H1. In this HH, who is USUALLY responsible for..... *(Use demog mem codes)*

- H1.1 Selection of [target crop] seed cultivar for planting? H011a _____ H011b _____
- H1.2 Deciding on the source for [target crop] to use? H012a _____ H012b _____
- H1.3 Obtaining the planting materials for [target crop]? H013a _____ H013b _____

H2. Are you or any household member **AWARE** or **FAMILIAR** with hybrid/improved seed variety for the [Target] crop?

[1=Yes2=No]

H02 _____

(Enumerator: Prompt the respondent on their awareness of improved varieties for the mentioned crop(s).)

Seedinfo16.sav(Key variables: hhid, H22, H23)

Crop					Have you or anyone in the household EVER used this variety? 1=Yes 2=No	Did you plant/grow this variety during this past cropping year? 1=Yes 2=No	If YES , What are the attributes of this variety that you are aware of?	Of these attributes you mentioned, Which one made you grow this variety?	If H27= No, Why didn't you use this variety during the past cropping year? (use codes below)	[If H26=No] Why haven't you used this variety before ? (use codes below)
Crop name	Crop code (Use code sheet)	What is the name of seed varieties planted?	What is the name of the main source of seed?	Proportion of cultivated plot area under improved seeds						
H21	H22	H23	H24	H25	H26	H27	H28	H29	H220	H221

Attributes (H29)									Not using variety (H220/H221)														
1=high yielding	2=Disease resistant	3=Pest resistant	4=Drought tolerant	5=Affordable	6=Output more marketable	7=High germination rate	8=Used as building materials	9=Used as fodder	10= Stores well for longer	11=Uniformity in maturity	12=Early maturing	13=Minimal growing space	14= Requires less fertilizer	15=Flood tolerant	16= Other specify_____	1=No longer available	2=Not satisfied with yield	3=Labor intensive	4= Lack of market for output	5=Too costly	6=Inconsistent yield	7=Wanted to try something new	8=Emergence of new disease/pest to the variety

SECTION I: AGRICULTURAL LABOUR

Plot ID	Activity ID	Family Labour				Exchange/Communal labour				Hired labour				Activity Codes
		I1	I2	I3	I4	I5	I6	I7	I8	I9	I10	I11	I12	
		How many FEMALE household members worked on [PLOT] during [ACTIVITY]?	How many MALE household members worked on [PLOT] during [ACTIVITY]?	How many FEMALE household members work on [PLOT] during [ACTIVITY] altogether?	How many MALE household members work on [PLOT] during [ACTIVITY] altogether?	How many FEMALE communal labourers worked on [PLOT] during [ACTIVITY]?	How many MALE communal labourers worked on [PLOT] during [ACTIVITY] altogether?	How many FEMALE communal labourers work on [PLOT] during [ACTIVITY] altogether?	How many MALE communal labourers work on [PLOT] during [ACTIVITY] altogether?	How many FEMALE hired labourers worked on [PLOT] during [ACTIVITY]?	How many MALE hired labourers worked on [PLOT] during [ACTIVITY] altogether?	How many FEMALE hired labourers work on [PLOT] during [ACTIVITY] altogether?	How many MALE hired labourers work on [PLOT] during [ACTIVITY] altogether?	Clearing...1
		How many FEMALE household members worked on [PLOT] during [ACTIVITY]?	How many MALE household members worked on [PLOT] during [ACTIVITY]?	How many FEMALE household members work on [PLOT] during [ACTIVITY] altogether?	How many MALE household members work on [PLOT] during [ACTIVITY] altogether?	How many FEMALE communal labourers worked on [PLOT] during [ACTIVITY]?	How many MALE communal labourers worked on [PLOT] during [ACTIVITY] altogether?	How many FEMALE communal labourers work on [PLOT] during [ACTIVITY] altogether?	How many MALE communal labourers work on [PLOT] during [ACTIVITY] altogether?	How many FEMALE hired labourers worked on [PLOT] during [ACTIVITY]?	How many MALE hired labourers worked on [PLOT] during [ACTIVITY] altogether?	How many FEMALE hired labourers work on [PLOT] during [ACTIVITY] altogether?	How many MALE hired labourers work on [PLOT] during [ACTIVITY] altogether?	Ploughing...2 Planting...3 Chemical Applic.....4 Weeding...5 Harvest ing.....6
		Number of people	Number of people	Number of days	Number of days	Number of people	Number of people	Number of days	Number of days	Number of people	Number of people	Number of days	Number of days	
		[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[
		[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[

		1 Yes 2 No >>J4	over the last major season?		been harvested already)	[PLOT] damaged ? by pests, rotting, or any other reason								harvest or the QUANTITY		
			Unit	No.	Unit	No.	1 Yes 2 No (-> NEXT PLOT)	[CODE BELO W]	Specif y if OTHE R	Enter Percenta ge (%)				Share (%)	Quantity	(currency)
														Qt y	Uni t	

Crop Codes			
1...	Rice	11...	Pepper
2...	Maize	12...	Watermelon
3...	Millet	13...	Mango

4...	Sorghum	14...	Tomato
------	---------	-------	--------

5...	Groundnut	15...	Salad vegetables
6...	Soya bean	16...	Cotton
7...	Cassava	17...	Other (specify)
8...	Yam		
9...	Cowpea		
10...	Okra		

Unit Codes			
02...	American tin	23...	Stick
04...	Basket	24...	Tonne
06...	Bowl	29...	Bucket

07...	Box	30...	Crate
-------	-----	-------	-------

08...	Bunch	36...	Set
09...	Bundle	37...	Single
11...	Fingers	40...	Calabash
14...	Kilogram	91...	100 pieces
18...	Maxi bag	99...	Other
19...	Mini bag		

Codes for H7			
1...	Rotting	11...	Other insect
2...	Disease	12...	Rodents
3...	Fire	13...	Monkeys

4...	Flood	14...	Sheep
------	-------	-------	-------

5...	Drought	15...	Goats
6...	Birds	16...	Cattle
7...	Grasshoppers	17...	Other
8...	Locust		
9...	Termites		
10...	Caterpillars		

Reason
1= total crop failure, too little rain
2= total crop failure, too much rain
3=destruction by wildlife
4= destruction by domestic animals

SECTION K1: CROP STORES AND SALES

K1	K2	K3	K4	K5	K6	K7		K8	K9		K10		K11		K12		K13		K14		K15		K16					
Crop Code	Once [CROP] is harvested and dried, how do you store it?	What chemicals are used for treating [CROP] in storage? [PROMPT: Ask for container]	What has been stored [CROP] been lost to?	Who have you sold [CROP] to?	What was your source of market information?	What was the total quantity of [CROP] sold during and since the harvest in the past 12 months?	Qty	Unit	When did you harvest your [CROP] (MONTH)	From the crop harvested, estimate qty used to pay back loans or inputs received	Qty	Unit	From the crop harvested, estimate qty consumed as food by household members	Qty	Unit	From the crop harvested, estimate qty used as seed for next planting	Qty	Unit	From the crop harvested, estimate qty stored	Qty	Unit	From the crop harvested, estimate qty lost because of post-harvest losses	Qty	Unit	From the crop harvested, estimate qty sold	Qty	Unit	
	[see code]	[see code]	[see code]	[see code]																								

Code for K2
 1... Local silo at home/farm
 2... In bags at home/farm
 3... With private aggregator
 4... Cooperative/FBO facility

Crop Codes
 1... Rice
 2... Maize
 3... Millet
 4... Sorghum
 11... Pepper
 12... Watermelon
 13... Mango
 14... Tomato

Unit Codes
 02... American tin
 04... Basket
 06... Bowl
 07... Box
 23... Stick
 24... Tonne
 29... Bucket
 30... Crate

Code for K3
 1... Actellic Powder
 2... Phostosine tablets
 3... Other (specify)
 4... None

Code for K5
 1... Consumer within c'ty
 2... Consumers elsewhere
 3... Market traders
 4... Private aggregator

5... Communal storage unit
6... Other (specify)
7... Not stored

5... Groundnut	15... Salad vegetables
6... Soya bean	16... Cotton
7... Cassava	17... Other (specify)
8... Yam	
9... Cowpea	
10... Okra	

08... Bunch	36... Set
09... Bundle	37... Single
11... Fingers	40... Calabash
14... Kilogram	91... 100 pieces
18... Maxi bag	99... Other
19... Mini bag	

5... Cooperative/FBO
6... Outgrower
7... Pre harvest contractors
8... Sale/trade organizations
9... Other (specify)

SECTION K1: CROP SALES AND STORES (CONTINUED)

K17	K18		K19	K20	K21		K22		K23		K24	K25		K26		K27
CROP CODE	At what average price per unit did you sell [CROP] ?		Name the three most common buyers of your [CROP] output during and since the harvest(s) in 2014 in order.	What proportion of the [CROP] output during and since the harvest(s) in 2014 was sold to main buyer in I14?	At what average price per unit did you sell [CROP] to main buyer in I15?		What proportion of the [CROP] output during and since the harvest(s) in 2014 was sold to [2] in I14?		At what average price per unit did you sell [CROP] to [NAME] in I7?		What proportion of the [CROP] output during and since the harvest(s) in 2014 was sold to [3] in I14?	At what average price per unit did you sell [CROP] to [NAME] in I19?		For the [CROP] you transported outside the community for sale, what was the distance to sale point? Km.....1 Miles.....2		What was the cost of transportation?
	GHS	Unit	[SEE CODE]	[SEE CODE]	GHS	Unit	[SEE CODE]	GHS	Unit	[SEE CODE]	GHS	Unit	No	Unit	GHS	
	GHP				GHP			GHP			GHP				GHP	

Crop Codes		
1...	Rice	11... Pepper
2...	Maize	12... Watermelon
3...	Millet	13... Mango
4...	Sorghum	14... Tomato
5...	Groundnut	15... Salad vegetables
6...	Soya bean	16... Cotton
7...	Cassava	17... Other (specify)
8...	Yam	
9...	Cowpea	
10...	Okra	

Unit Codes		
02...	American tin	23... Stick
04...	Basket	24... Tonne
06...	Bowl	29... Bucket
07...	Box	30... Crate
08...	Bunch	36... Set
09...	Bundle	37... Single
11...	Fingers	40... Calabash
14...	Kilogram	91... 100 pieces
18...	Maxi bag	99... Other
19...	Mini bag	

Code for I14	
1...	Consumer within c'ty
2...	Consumers elsewhere
3...	Market traders
4...	Private aggregator
5...	Cooperative/FBO
6...	Outgrower
7...	Pre harvest contractors
8...	Sale trade organizations
9...	Other (specify)

Codes for proportions	
1...	All
2...	Half (1/2)
3...	One-third (1/3)
4...	Two-thirds (2/3)
5...	One-quarter (1/4)
6...	One-fifth (1/5)
7...	Other (specify all others)

SECTION K2: Crop residue disposal (Key Variables hhid, C31, C32)

Crop (Pull crops whose residues were sold)	Season 1=Main 2=Short	Quantity sold	Sales unit (use unit codes)	Price per unit or total value of sale		Main buyer of largest sale 1=Other farmer 2=Processors 3=farmer group Yes...1 No...2 >> if no, next crop	Do you intend to sell any of the [CROP] to be harvested during the rainy season?
				Price per unit (LCU)	Value of sales (LCU)		Yes....1 No....2
K28	K29	K30	K31	K32	K33	K34	K35

SECTION L: OTHER CROPS PRODUCED

This section seeks information on other crops produced by households which are NOT TARGET CROPS.

Part Li. Other Crop Sales and Storage in the Last Major Season

L0. Does anyone in this household engage in crop production other than TARGET CROP(S)?

1. Yes 2. No >> Part B

List five most important cultivated crops (not TARGET CROP) sold in most recent season	Value of Sales of crop	Value of own quantity consumed	Value of amount stored or not harvested	Value of crop given as gift
L1	L2	L3	L4	L5
1.	LCU. _____	LCU. _____	LCU. _____	LCU. _____
2.	LCU. _____	LCU. _____	LCU. _____	LCU. _____
3.	LCU. _____	LCU. _____	LCU. _____	LCU. _____
4.	LCU. _____	LCU. _____	LCU. _____	LCU. _____
5.	LCU. _____	LCU. _____	LCU. _____	LCU. _____

Part Lii: Inputs Use in Farm Production

(Inputs here refers to variable inputs used in the last major season)

List the ten (10) most important inputs used in farm production	Value of input (Value incurred by farmer at the time of purchase)
L6	L7
1.	LCU. _____
2.	LCU. _____
3.	LCU. _____
4.	LCU. _____
5.	LCU. _____
6.	LCU. _____
7.	LCU. _____
8.	LCU. _____
9.	LCU. _____
10.	LCU. _____

SECTION M: SALARIED EMPLOYEES

M1 Have you had any salaried employees in the last 12 months? 1= Yes 0= No (Skip to section N) M1 _____

M2 If YES, Please indicate how much you paid in **TOTAL** (LCU.) to salaried employees as shown in the table below.

Month	Oct 2015	Nov 2015	Dec 2015	Jan 2016	Feb 2016	Mar 2016	Apr 2016	May 2016	June 2016	July 2016	Aug 2016	Sep 2016
Code	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14

Salary Amount(
----------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SECTION N: INCOME, SALARIES & WAGES
N1. BUSINESS AND INFORMAL INCOME ACTIVITIES

We would like to know about all the off-farm income earning activities, including share dividends, your household was involved in, **exceptsalaried employment pensions and remittances**. Please list the names of all persons from the demography table who indicated they had engaged in a business or informal labour activity, then enter their corresponding person code. From the list below, please list all the informal income earning activities for which this person had primary responsibility at any time during the past 12 months (**Jun 2015 to May 2016**) (include jua kali and farm kibaruas).(**Probe for charcoal burning, fishing and own tree selling**)

Business16.sav (Key variables: *hhid, N11, N12*)

Person name	Me m code	Activity Code	Please classify each month's net earnings as:												Low earnings month		Average earnings month		High earnings month	
			0=none			1=low			2=average			3=high			(LCU)		(LCU)		(LCU)	
			Jun 2015	Jul 201	Au g 2015	Sept 2015	Oct 201	Nov 201	Dec 201	Jan 2016	Feb 2016	Mar 2016	Apr 2016	May 2016	LGROSS	LCOST	AGROSS	ACOST	HGROS	HCO
Name	N11	N12	N13	N14	N15	N16	N17	N18	N19	N110	N111	N112	N113	N114	N115	N116	N117	N118	N119	N120

Business and Informal Income Codes (N12):

1	Accounting clerk	16	Curio trader	31	Jaggery (<i>Sukaringuuru</i>)	46	Planting	61	Thatching grass
2	Agricultural trading	17	Cyber/printing	32	Laundry business	47	Ploughing	62	Tour guide
3	Bar operator	18	Dealing in ropes/sisal/firewood	33	Livestock trading	48	Plumber	63	Tout/turnboy
4	Battery charging	19	Driver	34	Local brewing	49	Posho milling	64	Trading timber
5	Bicycle (repair/transporter)	20	Earning dividends	35	Lumbering/wood cutting	50	Renting out properties	65	Traditional doctor
6	Boat making	21	Electrician	36	Making pots	51	Retail shop/kiosk/shopkeepingsd	66	Transporter (goods)

7	Brick making	22	Farm kibarua	37	Masonry	52	Sand harvesting	67	Tree seller, commercial
8	Brokerage	23	Fish trading	38	Matatu business	53	School business	68	Vehicle mechanic
9	Building	24	Hair dresser/barber	39	Medical health business	54	Selling mandasi	69	Veterinary doctor
10	Butcher	25	Harrowing	40	Midwife	55	Selling water	70	Video business
11	Carpentry	26	Harvesting	41	Mining	56	Shearing sheep	71	Village elder
12	Casual worker	27	Hawker	42	Nurse	57	Spraying	72	Weaving
13	Charcoal burning	28	Hiring out a bull	43	Pet breeder	58	Surveyor	73	Welding/painting/blacksmithing
14	Clothes/shoes business	29	Hotel	44	Photography	59	Tailor	74	Wine tapper
15	Cobbler	30	Income from other farm	45	Pit latrine digging	60	Teacher, part time	75	Other, specify

N2. SALARIED WAGE/TRANSFERS EMPLOYMENT

We would now like to talk about all *salaried employment* that anyone in this household engaged in during the past months from **Jun 2015 to May 2016** including **pensions and remittances**. For remittances remember to separate into local and from abroad, depending on source. Include only income remitted back to household.

Salwg16.sav

Key variables: hhidN21N22

member name Please list the names of all persons from the demography table who indicated they had engaged in <i>salaried employment activities</i> , then enter their corresponding person code	Member ID	From the list below, please list all the <i>salaried employment activities</i> in which this person was engaged at any time during the past 12 months	What is this person's current monthly wage? Kshs	Is person earning same monthly wage? 1=Yes (go to next activity) 2=No	If the person did <i>not</i> earn the same wage during all 12 months, please indicate the wage earned for each month individually (LCUs) <i>Skip this section if person received the same monthly wage during the whole year</i>											
					Jun 2015	Jul 2015	Aug 2015	Sept 2015	Oct 2015	Nov 2015	Dec 2015	Jan 2016	Feb 2016	Mar 2016	Apr 2016	May 2016
Name	N21	N22	N23	N24	N25	N26	N27	N28	N29	N210	N211	N212	N213	N214	N215	N216

Salaried Wage Codes (N21):

1	Accountant	1	Committee member	2	Fishing	3	Mechanic	45	Remittance (abroad)	5	Tea picker
2	Administrator	1	Conductor	2	Forester	3	Messenger	46	Research	5	Teacher
3	Banker/receptionist	1	Construction	2	General farm worker	3	Miller	47	Road construction	5	Technician
4	Butcher	1	Cook/caterer	2	Hair dresser	3	Nurse	48	Sales person	5	Veterinary doctor
5	Cane cutter	1	Craftsman/artisan	2	House help	3	Pastor/religious services	49	Secretary	6	Waiter/cook
6	Caretaker/groundsm an	1	Driver	2	Industrial worker	3	Pension	50	Shop keeper/attendant	6	Watchman
7	Carpenter/mason	1	Doctor	2	Lab attendant	4	Petrol seller	51	Soldier	6	Welding
8	Chief	1	Electrician	3	Lawyer	4	Plumber/battery charger/barber	52	Sports/coach	6	Other, specify
9	Civil leader	2	Engineer	3	Lecturer/tutor	4	Policeman/woman	53	Subordinate civil services		
10	Cleaner	1	Equipment operator	2	Lumber	3	Postmaster	54	Surveyor		
11	Clerk	2	Extension agent	3	Manager	4	Remittance (local)	55	Tailor		

SECTION P: FOOD SECURITY

P1	Please list 3 most commonly consumed food crops in this household during the last 12 months. (<i>Use crop codes from the inventory</i>)	1 _____ 2 _____ 3 _____											
P2	Among the 3 common foods , which one do you consider to be the main food security crop for your household?	_____											
P3	What quantity of this main food security crop do you have in stock NOW from own production? Unit codes: 1=90kg bag 11=50kg bag 2=kgs 6=bunches 7=25kg bag 12=debe	_____ Qty _____ Unit											
P4	What quantity of this main food security crop did this household have in stock from own production just BEFORE HARVESTING the last season's crop?	_____ Qty _____ Unit											
P5	In the last 12 months, is/were there a month(s) that you feel/felt as though you had INSUFFICIENT food resources from own production ? 1=yes 2=No>>>	_____											
P6	If YES which months in the past 12 months did your household experience food shortages ?	OCT 15	NOV 15	DEC 15	JAN 16	FEB 16	MAR 16	APR 16	MAY 16	JUN 16	JUL 16	AUG 16	SEP 16

P7	What are the three main coping mechanisms you revert to during famine or food scarcity? (<i>Think about the last dry spell</i>)	1 _____ 2 _____ 3 _____
P8	In the last 12 months, for how many weeks have you relied primarily on food aid ?	1 _____ 2 _____ 3 _____

<p>Code for P7 0=never 1=food aid 2=rely on relatives/friends 3=skip some meals in a day 4=skip meals for entire day</p>	<p>5=take reduced meals 6=eat meals that are less preferred 7=consume wild food 8=consume immature crops 9=consume taboo/toxic foods</p>	<p>10=consume seed stocks 11=send household members to eat elsewhere 12=beg or engage in degrading jobs 13=withdraw children from school 14=allow children to eat more than adults</p>	<p>15=purchase food on credit 16=migration out of the area 17=sell livestock 18=dispose assets 19=other, specify _____</p>
--	--	--	--

P9 Food Commodity	Oct - Dec 2015			Jan - Mar 2016			Apr - June 2016			July-Sep 2016		
	P9.1	P9.2		P9.3	P9.4		P9.5	P9.6		P9.5	P9.6	
1=Maize grain 2=Maize sifted 3=Maize posho 4=Rice 5=Common Beans 6=Cassava	Did your household buy any of the following items between Oct - Dec 2015	If yes indicate the quantity unit and price per unit (LCU) (Use unit codes in the crop table)		Did your household buy any of the following items between Jan - Mar 2016	If yes indicate the quantity unit and price per unit (LCU) (Use unit codes in the crop table)		Did your household buy any of the following items between Apr - June 2016	If yes indicate the quantity unit and price per unit (LCU) (Use unit codes in the crop table)		Did your household buy any of the following items between July -	If yes indicate the quantity unit and price per unit (LCU) (Use unit codes in the crop table)	
		quantity	unit		Unit price	quantity		unit	Unit price		quantity	unit

													HHID _____			
7=Banana -cooking	Yes.... .1 No..... 2 If no, >> P906				Yes.... .1 No..... 2 If no, >> P910				Yes.... .1 No..... 2 If no, >> P914				Sep 2016			
													Yes.. ...1 No..... .2 If no, >> next comm odity			
P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25

SECTION Q: HOUSEHOLD HUNGER SCALE

Enumerator: Ask of the person responsible for Household Food Preparation.

Based on your responses to P.5 and P.6, we will ask about food availability, during the **WORST MONTH** of food shortage in the household.

Q. During the WORST MONTH, how often did you or any other HH member...

Q.1 Have to go for a **whole day and night completely** without food **due to lack of resources** to get food?

Q01 _____

0= Never

2= Rarely (1-2 times)

3= Sometimes (3-10 times)

HHID _____

Q.2 Have to sleep at night hungry because there was **not** enough food?

Q02 _____

0= *Never* 2= *Rarely (1-2 times)* 3= *Sometimes (3-10 times)*

Q.3 Have to go a whole day and night without eating anything at all because there was **not** enough food?

Q03 _____

0= *Never* 2= *Rarely (1-2 times)* 3= *Sometimes (3-10 times)*

Q.4 Have to limit the frequency of meals because of lack of resources?

Q04 _____

0= *Never* 2= *Rarely (1-2 times)* 3= *Sometimes (3-10 times)*

Q.5 Have to eat a smaller meal than you felt you needed because of lack of resources/food?

Q05 _____

0= *Never* 2= *Rarely (1-2 times)* 3= *Sometimes (3-10 times)*

Q.6 Have to eat food that you did not like to eat because of a lack of resources to obtain other types of food?

Q06 _____

0= *Never* 2= *Rarely (1-2 times)* 3= *Sometimes (3-10 times)*

Q.7 Have to limit the variety of foods you ate because of lack of resources

Q07 _____

0= *Never* 2= *Rarely (1-2 times)* 3= *Sometimes (3-10 times)*

SECTION R: HOUSEHOLD ASSETS

(Reference period Oct 2015 – Sept 2016)

R.1 Do you have access to **electricity**? [1 = *Yes* 2=*No*]

R1 _____

Asset 16.sav

Key Variables hhid, ID

Asset		Number of items currently owned	Current value per unit (LCU)	Total current value (LCU)	Asset		Number of items currently owned	Current value per unit (LCU)	Total value (LCU)
ITEM	ID	R2	R3	R4	ITEM	ID	R2	R3	R4

Animal traction	2				Pestle & mortar	38			
Battery	27				phone mobile	50			
Beehive	17				piggery houses	30			
Bicycle	14				Planter	41			
Boom sprayer	33				ploughs for tractor	1			
Borehole	19				poultry houses	29			
Car	6				power saw	23			
Cart	3				Radio	15			
Chaff cutter	25				Ridger or weeder	43			
Computer	53				Sewing or knitting machine	49			
Cow shed	54				Sheller	40			
Crush	55				solar panels	26			
Donkey	36				spray pump	8			
Fridge	58				Stores	11			
Gas cylinder	59				Tractor	5			
Generator	42				Trailer	4			
Grinder	21				Truck	7			
Hammer or posho mill	48				TV	22			
Harrow or tiller	39				Water pan	35			
Houses residential	18				water pump	31			
Irrigation equipment	9				water tanks	10			
Jaggery unit	24				water trough	37			
Jaggery unit	24				weighing machine	28			
Landline telephone	32				Well	45			
Motorcycle	20				wheel barrow	12			
Oxen	46				zero-grazing units	16			

SECTION S: HOUSING CHARACTERISTICS

(Enumerator: Observe/ask about the following)

S1	What is the roofing material of the main house ?		
S2	What is the exterior wall material of the main house ?		
S3	What is the floor material of the main house ?		
S4	What is the mode of ownership of the main house ?		
S5	What type of toilet do you use?		
S6	What is the main source of water for domestic use during dry seasons ?		
S7	What is the distance (in km) to main source of water for domestic use during dry Seasons ?		
S8	What is the main source of water for domestic use during wet seasons ?		
S9	What is the distance (in km) to main source of water for domestic use during wet seasons ?		
S10	What is your main cooking fuel ?		
S11	What is your main type of lighting ?		

CODES

S1 1=grass/thatch 2=iron sheet 3=tiles 4=other, (specify _____)

S2 1=mud 2=bricks/stones 3=iron sheet 4=wood 5=plastered 6=other, (specify _____)

S3 1= earth 2=cement 3=wood 4=tiles 5=other, (specify _____)

S4 1= owned 2= rented 3= owned by relative 4= owned by relative 4=other, (specify _____)

S5 1= pit latrine 2= bush 3= flush toilet 4= VIP toilet 5= other, (specify _____)

S6/S7/S8/S9 1=Pond 2=dam /sand dam 3=lake 4=stream/river 5=unprotected spring 6=protected spring 7=well 8=borehole
 9=piped into compound 10=piped outside compound 11=water tankers 12=roof catchments 13=water hawkers-cart / bicycle transporters
 14= other, specify _____

S10/S11 1=electricity 2=kerosene 3=firewood 4=Piped or liquid propane gas (gas) 5=bio-gas 5=charcoal 6=solar power 7=other, specify _____

S12 1=electricity 2=pressure lamp 3=tin lamp 4=fuel wood 5=lantern 6=solar power 7=other, specify _____

SECTION T: EXTENSION SERVICES

Ti. In the last **12 months** (*within reference period*), did anyone in the household receive any agricultural advice service?
 (1=Yes 0=No) **T1** _____ if no>>> skip to Tii.

In the last 12 months (<i>within reference period</i>), did anyone in the household receive any of these agricultural advice services for the target crop? (If no for all, skip to S.4.)		
Extension Service	Code	Yes.....1 No.....2>>> Next Service
Seed multiplication	1	
Crop production (fertilizer and seed use)	2	
Insurance advice	3	
Crop marketing	4	
post-harvest handling & storage	5	
Soil fertility testing & management	6	
livestock production	7	
livestock marketing	8	
Other (Specify) ____	9	

Who was the extension service provider ?	Did you pay anything to receive this service? <i>1=Yes 0=No/Skip To T4</i>	If you paid to receive the service, what was the total cost (LCU) in the last 12 months?	How many times on average did you receive advice from this source in the last 12 months?	What was the main mode of advice delivery used?	For what enterprise did you receive advice on? 1=livestock 2=crop 3=Both livestock and crop	If T5=Crop Which crop?	Did you actively seek this advice <i>1=Yes 0=No</i>	Distance (km) to source of extension information (<i>i.e. site where you received the information</i>)	Did you implement the advice? <i>1=Yes 2=No</i>	If you did not implement why?	Which attributes made you choose/use this particular service provider	What is your level of satisfaction with the performance of this extension source <i>1= Satisfied 2=Neutral 3=Dissatisfied</i>
T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	T13

Provider of Extension advice (T1)		Mode of Extension advice delivery (T5)		Codes for Implement(T13)		Attributes of service provider (T14)
1=Government agent	7=Processing and marketing enterprise	1 Field days	7 Through mobile phone	1=Expensive	8=Inapplicable information	1=Accessibility
2=Non-Governmental Organization (NGOs)	8=Research organizations	2 Demonstrations	8 Face to face contact	2=Time consuming	9=Lack of capital	2=Reliability
3=Farmers organization	9 Private individual/firm	3 Farm Visit	9 Group discussions	3=Did not understand the message	10=No livestock	3=Repetition
4=Community based organizations (CBOs)	10 Other farmer(s)	4 Radio/television	10 Group meetings	4=No value	11=Unfavourable weather	4=Affordable
5=Faith Based Organization (FBOs)	12 Baraza	5 Newspaper/magazines/ brochures	12 Baraza	6=All livestock stolen	12=Wrong timing	5=Usefulness of information
6=Input dealer	13 Farmers training centre	6 ASK shows	13 Seminar	7=Illness		6=Professionalism
	14 Local leaders					8=Less time required
	15 Radio					9=Experience
						11=testing varieties

Tii. Are there types of information that you sought and never received the advice? (List three main sources)

(Use advice codes from the table above)

T14 _____ T15 _____ T16 _____

SECTION U: ACCESS TO CREDIT& SAVINGS ACCOUNTS

U1 In the last 12 months, did any household member try to get credit (in cash or in kind) for any purpose? 1=Yes 0=No (go to U12)

U01 _____

Uii If YES, indicate the details in the table below.

Credit16.sav (Key variables: hhid, T21)

Person seeking credit (Get mem id from demography table)	Credit ID	From who /where was the credit sought?	What is the amount applied for?	What was the intended purpose of the cash/in-kind credit?	Did [name] receive the cash or in-kind credit applied?	If [name] received the credit, how much was received?	What was the cash/in-kind credit <u>mainly used for</u> ?	If [name] received the credit, how much was the cost (monthly interest rate)	If [name] did not receive, what was the reason?
		1= neighbor 2=farmer group 3=SACCO 4=commercial bank 5=relative/friend 6=NGO/MFI 7=AFC 8=Rural bank 9=informal money lender 10=other (specify) _____		1=School fees 2=medical 3=Business 4=Buy land 5=Household consumption 6=Build a house 7=Farming	1= Yes 2= No→[go to T29]		1=School fees 2=medical 3=Business4=Buy land 5=Household consumption 6=Build a house 7=Farming		1=Had no collateral 2=Had outstanding loan 3= Don't Know 4=Did not have an account 5=Lender lacked cash

					8=other (specify) _____			8=other (specify) _____		6=Not processed yet 7= Other (specify) _____
Name	U2	U3	U4	U5	U6	U7	U8	U9	U10	U11

U12 Why did you not try to get credit?	U13 If you were certain that a lender would approve your application (at the standard requirements), would you apply? 1= Yes>> U15 0= No	U14 If NO, why would you not apply?
<p>U12 and U14 codes: 1=Household does not need a loan 2=The interest rate is too high 3=Farming doesn't give me enough to repay debt 4=I don't want to put my land at risk as collateral 5=I don't want to worry/I am afraid 6=Lenders are too strict 7=The place where I could obtain credit is too far 8=There is too much paperwork to obtain a loan 9=The costs of applying are too high</p>		

Fill the details about the **bank accounts** held by the household members

U15 Does any member of the household have a bank account (including cooperatives, ROSCAs etc) 1= Yes 0= No (Skip to Section V)					
Who owns the account? (Use mem id in demog)			Where is the bank account held?	Distance to the nearest banking point	Why doesn't any of the household members have a bank account <i>(Use codes below)</i>
Name	Member ID	Savings ID			
U16	U17	U18	U19	U20	U21
<p>U19 codes: 1=Commercial bank 2=SACCO 3=MFI 4=Groups (ROSCAs) 5=Village bank 6=Phone banking</p> <p>U21 codes: 1=No money to save 2=Have to travel far to access account 3=No need 5=Ignorance 6=Planning to open at a later time 7=Had account but closed it 8=Saves elsewhere (e.g.in mobile money, group) 9.Other (specify) _____ (e.g no ID)</p>					

SECTION V: FARMER GROUPS

V1 Are you or anyone in the household a member of any **farmer's group** or **producer's association**? 1=Yes 2=No (go to Vii) V1 _____

Who in the household is a member of the group? (Use member ID from the demography table on page 2)	What type of producer Group the member belong to? 1= Seed production and multiplication 2=Livestock production 3=Value addition 4=Aquaculture 5=Beekeeping 6= Crops production 7=Other (specify)	If group=1 (seed),				What are the main three services offered within the group? 1=Training 2= Output marketing 3=Input acquisition 4=Financial services 5=A.I services 6=Water provision 7=Other specify)	What other services would member like to access within the group? 1...Financial with seeds 2...Financial with fertilizer 3...Insurance with seeds 4...Insurance with fertilizer 5... Other (specify)	Would you be willing to pay for these services? Yes....1 No.....2	Currently, is your farmer group charging you for the services they offer?	What is the gender composition of the group?		What is the gender composition of the group's management committee		What are the major challenges that you are currently facing in your group activities?		
		Which crops and varieties are you multiplying?	Have your group members been trained in seed production, conditioning and marketing? 1=Yes 2=No	If trained, by who?	Crop					Seed variety	No. of males	No. of females	No. of males		No. of females	
V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13	V14	V15	V16	V17	V18

SECTION W: INFRASTRUCTURE

(Note that distance should be recorded in kilometers, Km; Use -7= Don't know)

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W1	What is the distance from your homestead to the nearest seller of improved seed?	Distance _____ Unit _____
W2	What is the distance from your homestead to the nearest seller of inorganic fertilizer?	Distance _____ Unit _____
W3	What is the distance from your homestead to the nearest extension advice?	Distance _____ Unit _____
W4	What is the distance from your homestead to the nearest agro-dealer?	Distance _____ Unit _____
W5	What is the distance from your homestead to the nearest MAJOR market place for farm produce?	Distance _____ Unit _____
W6	What is the type of the road from your homestead to the nearest farm produce market? <i>Road type codes: 1=tarmac 2=murram /all-weather 3=dry weather 4=foot path</i>	_____
W7	What is the distance from your home stead to the nearest electricity supply point	Distance _____ Unit _____
W8	What is the distance to the nearest telephone? (<i>Landline, and public mobile phones</i>)	Distance _____ Unit _____

SECTION X. WOMEN'S EMPOWERMENT IN AGRICULTURE INDEX (WEAI)

Enumerator: This questionnaire should be administered separately to the primary and secondary respondents identified in the household roster (Section C) of the household level questionnaire. You should complete this coversheet for each individual identified in the “selection section” even if the individual is not available to be interviewed for reporting purposes.

Please double check to ensure:

- You have completed the roster section of the household questionnaire to identify the correct primary and/or secondary respondent(s);
- You have noted the household ID and individual ID correctly for the person you are about to interview;
- You have gained informed consent for the individual in the household questionnaire;
- You have sought to interview the individual in private or where other members of the household cannot overhear or contribute answers.
- Do not attempt to make responses between the primary and secondary respondent the same—it is ok for them to be different.

X1. INDIVIDUAL IDENTIFICATION

Description	Code	Description	Code
X1.1. Name of respondent currently being interviewed	X101 _____	X1.5. Outcome of interview	X105 _____
X1.2. ID of respondent currently being interviewed (ID Code from roster in Section C Household Roster): Surname, First name	X102 _____	X1.6. Ability to be interviewed alone:	X106 _____
X1.3. Sex of respondent: (1=Male 2=Female)	X103 _____	X105 1=Completed 2=Incomplete 3=Absent 4=Refused 5=Could not locate	X106 1=Alone 2=With adult females present 3=With adult males present 4=With adults mixed sex present 5=With children present 6=With adults mixed sex and children present
X1.4. Type of household 1=Male and female adult 2=Female adult only	X104 _____		

X2: ROLE IN HOUSEHOLD DECISION-MAKING AROUND PRODUCTION AND INCOME GENERATION

X2: Respondent ID (Same as module C)

RESPID _____

Note to the enumerators: The first 5 activities are specific to crop production, whereas 'food crop farming' and 'cash crop farming' are more general categories which include many activities and decisions. Rice production could fall into either category.

		<i>Did you yourself participate in this activity in the past 12 months? (1)Yes (2)No</i>	<i>When decisions are made, who is it that normally takes the decision?</i>	<i>How much input did you have in making decisions?</i>	<i>To what extent do you feel you can make your own personal decisions if you want(ed) to? Select one</i>	<i>How much input did you have in decisions on the use of income generated from this activity?</i>
		X20	X21	X22	X23	X24
Selection of crops	1					
Use of production (amount of harvest saved for household consumption, sold, stored, used as animal feed, etc.)	3					
Crop planting/sowing activities: This would include method of sowing, timing, land preparation.	4					
Household labor (family members working in the field, when family who from the family works in the field and when they work)	5					
Food crop farming: These are crops that are grown primarily for household food consumption	6					
Non-farm economic activities: This would include things like running a small business, self-employment, buy-and-sell	9					
Wage and salary employment: This could be work that is paid for in cash or in-kind, including both agriculture and other wage work	1 0					
Major household expenditures (such as a bicycles, land, motorbike)	1 2					
Minor household expenditures (such as food for daily consumption or other household needs)	1 3					
Children education (e.g. whether to send them to school, where should children go to school)	1 4					

Code X21 Who makes decision: 1=Self, 2= Spouse, 3= Other household members, 4=Other non-household members, 5= Not Applicable

Code X22 & X 24) Degree of involvement: (1=No input or input in few decisions, 2= Input into some decisions, 3= Input into most or all decisions, 4=No decision made

Code X23 Degree in own decision: (1= Not at all, 2= Small extent, 3=Medium extent, 4= To high extent)

X3 Access to Productive Assets

“Now I’d like to ask you about your household’s access to and ownership of a number of items that could be used to generate income.”

		Does anyone in your household currently have any [ITEM]?	Do you own any of the item?
		(1) Yes (2) No >> Go to next item	CIRCLE ALL APPLICABLE 1=Yes, Solely 2= Yes, Jointly 3= No
PRODUCTIVE CAPITAL			
A	Agricultural land (pieces/plots)		
B	Large livestock (oxen, cattle)		
C	Small livestock (goats, pigs, sheep)		
D	Chickens, Ducks, Turkeys, Pigeons		
E	Fish pond or fishing equipment		
F	Farm equipment (non-mechanized: hand tools, animal-drawn plough)		
G	Farm equipment (mechanized: tractor-plough, power tiller, treadle pump)		
H	Nonfarm business equipment (solar panels used for recharging, sewing machine, brewing equipment, fryers)		
I	House or other structures		
J	Large consumer durables (refrigerator, TV, sofa)		
K	Small consumer durables (radio, cookware)		
L	Cell phone		
M	Other land not used for agricultural purposes (pieces/plots, residential or commercial land)		
N	Means of transportation (bicycle, motorcycle, car)		

X4a: INDIVIDUAL LEADERSHIP AND INFLUENCE IN THE COMMUNITY

X4a.01 Do you feel comfortable speaking up in public to help decide on infrastructure (like small wells, roads, water supplies) to be built in your community?

X4a1 _____

X4a.02 Do you feel comfortable speaking up in public to ensure proper payment of wages for public works or other similar programs?

X4a2 _____

X4a.03 Do you feel comfortable speaking up in public to protest the misbehaviour of authorities or elected officials?

X4a3 _____

(Codes: 1=No, not at all comfortable 2=Yes, but with a great deal of difficulty 3=Yes, but with a little difficulty 4=Yes, fairly comfortable 5=Yes, very comfortable)

SECTION Y: WOMEN'S DIETARY DIVERSITY

WOMEN'S DIETARY DIVERSITY

Please describe everything that you ate yesterday during the day or night, whether at home or outside the home.

A) Think about when you first woke up yesterday. Did you eat anything at that time?

IF YES: Please tell me everything you ate at that time. PROBE: Anything else? UNTIL RESPONDENT SAYS NOTHING ELSE, THEN CONTINUE TO PART B.

IF NO, CONTINUE TO PART B.

B) What did you do after that? Did you eat anything at that time?

IF YES: Please tell me everything you ate at that time. PROBE: Anything else? UNTIL RESPONDENT SAYS NOTHING ELSE.

REPEAT QUESTION B ABOVE UNTIL RESPONDENT SAYS SHE WENT TO SLEEP UNTIL THE NEXT DAY.

IF RESPONDENT MENTIONS MIXED DISHES LIKE A PORRIDGE, SAUCE, OR STEW, PROBE:

C) What ingredients were in that [mixed dish]? PROBE: Anything else? UNTIL RESPONDENT SAYS NOTHING ELSE.

AS THE RESPONDENT RECALLS FOODS, UNDERLINE THE CORRESPONDING FOOD AND ENTER '1' IN THE COLUMN NEXT TO THE FOOD GROUP. IF THE FOOD IS NOT LISTED IN ANY OF THE FOOD GROUPS BELOW, WRITE THE FOOD IN THE BOX LABELED 'OTHER FOODS.' IF FOODS ARE USED IN SMALL AMOUNTS FOR SEASONING OR AS A CONDIMENT, INCLUDE THEM UNDER THE CONDIMENTS FOOD GROUP.

ONCE THE RESPONDENT FINISHES RECALLING FOODS EATEN, READ EACH FOOD GROUP WHERE '1' WAS NOT ENTERED, ASK THE FOLLOWING QUESTION AND ENTER '1' IF RESPONDENT SAYS YES, '0' IF NO, AND '9' IF DON'T KNOW.

Yesterday during the day or night, did you drink/eat any [food group items]?

Question	Y01	Woman 1	Woman 2	Woman 3	Woman 4	Woman 5	Response codes
OTHER FOODS: PLEASE WRITE DOWN OTHER FOODS TO THE RIGHT OF THIS BOX THAT RESPONDENT MENTIONED BUT ARE NOT IN THE LIST BELOW. THIS WILL ALLOW THE SURVEY SUPERVISOR OR OTHER KNOWLEDGEABLE INDIVIDUAL TO CLASSIFY THE FOOD LATER.		WRITE FOODS EATEN HERE	: WRITE FOODS EATEN HERE:				
Food made from grains, such as bread, rice, noodles, porridge, or ugali	15						1 = Yes 2 = No 9 = Don't Know
Pumpkin, carrots, squash, or sweet potatoes that are yellow or orange inside	16						1 = Yes 2 = No 9 = Don't Know
White potatoes, white yams, manioc, cassava, [other local root crops] or foods made from roots	17						1 = Yes 2 = No 9 = Don't Know
Any dark green leafy vegetables such as [local dark green leafy vegetables]	18						1 = Yes 2 = No 9 = Don't Know
Ripe mangoes, ripe papayas or [other local vitamin A-rich fruits]	19						1 = Yes 2 = No 9 = Don't Know
Any other fruits or vegetables	20						1 = Yes 2 = No 9 = Don't Know
Question	Y01	Woman 1	Woman 2	Woman 3	Woman 4	Woman 5	Response codes
Liver, kidney, heart, or other organ meats	21						1 = Yes 2 = No 9 = Don't Know
Any meat, such as beef, pork, lamb, goat, chicken, or duck	22						1 = Yes 2 = No 9 = Don't Know
Eggs	23						1 = Yes 2 = No 9 = Don't Know
Fresh or dried fish, shellfish, or seafood	24						1 = Yes 2 = No 9 = Don't Know

Any foods made from beans, peas, lentils, nuts, or seeds [add any local names]	25						1 = Yes 2 = No 9 = Don't Know
Cheese, yogurt, or other milk products	26						1 = Yes 2 = No 9 = Don't Know
Any oil, fats, or butter, or foods made with any of these	27						1 = Yes 2 = No 9 = Don't Know
Any sugary foods such as chocolates, sweets, candies, pastries, cakes, or biscuits	28						1 = Yes 2 = No 9 = Don't Know
Condiments for flavor, such as chilies, spices, herbs, or fish powder	29						1 = Yes 2 = No 9 = Don't Know
Crabs, snails, or insects	30						1 = Yes 2 = No 9 = Don't Know
Foods made with red palm oil, red palm nut, or red palm nut pulp sauce	31						1 = Yes 2 = No 9 = Don't Know

THANK YOU

(Enumerator: Kindly thank the respondent)